

Forbidden Science

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Front cover: The wave nature of reality by Ian C Baillie
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Ian C Baillie

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Dedication

To John Charles Baillie, (1911 - 1976)

"For a father, who was once a son and opened the doors of
my mind when young."

Until we meet again...

Forbidden Science

A beginners guide to
understanding nearly everything

by

By Ian C Baillie, Ph.D.

UPSO

*There are more things in heaven and earth, Horatio,
Than are dreamt of in your philosophy.*

William Shakespeare (1564 - 1616), "Hamlet", Act 1 scene 5

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Also within that context of providing and opportunity for public speaking I would like to thank David and Frieda Quickenden of Astrasearch, who together with many others put on the main conferences that prophetically led to my discovery. For it was on stage at the October '97 conference, whilst presenting *The Physics of Immortality*, that I showed a clip of the X Files episode *The Field*, which had struck me so forcefully just a few weeks prior to speaking. Just one and a half years later, like the fictional character Fox Mulder, I was to make the exact same discovery of a long forgotten photograph of an American Civil War soldier - that was in effect *me*.

I would also like to thank the following for contributions to the contents of this book and my own personal development: my father, John Charles Baillie, my old friends Robert Habbick, Malcolm Hasler, Paul Benson, David Ellingworth, Larry Hemmings and his *legendary* brother Colin, my teachers Peter Ditton, Reg Caine, Geoff Lovelock,

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Foreword

By ANDY THOMAS

Welcome to the world of Forbidden Science – something I know at least a little about. Although I have increasingly become involved with other areas of what might be dubiously described as ‘parascience’, it is fair to say that this humble foreword writer is best known as – horror! - a crop circle researcher. To a large section of society, that’s the credibility of these pages gone already, because crop circles, like several of the subjects covered in the book you now hold, have been subjected to an ongoing campaign of dismissal from the sceptics and sniggers from the ignorant.

One can learn to live with this kind of treatment and weather its blows when enough evidence can be uncovered to support the veracity of something, no matter what the masses may believe. The truth is indeed out there when actively looked for. The joy of lifting a corner of the lid on scientific taboos and seeing the astonished looks on the faces of those who dare to peep and suddenly see what lies beneath makes it all worthwhile.

In my totally unexpected career as a researcher of swirled stalks, I have now been faced by the likes of Esther Rantzen and Richard and Judy, and ridiculed on prime-time TV several times, which is always healthy for the soul. But on all of these occasions, what I have discovered is that when you give unexpectedly sensible answers to questions clearly intended to stimulate wacky stuff, the conversations turn around. Interviewers sometimes DO listen when actually met with conviction and logic, and I know from experience that it is possible to turn around the expected three minutes of taunt-the-wacko into something sensible and constructive, but without taking oneself too seriously either.

Forbidden Science manages to achieve something similar, by taking subjects considered ‘fringe’ or, to use the technical term, ‘weird’, and pulling them together into a coherent and understandable presentation

which will leave most readers quite convinced of the truth and importance of the subjects covered. It may also lead them to wonder just why conventional science has such a problem with areas that clearly demand further investigation. The trouble is, no-one on the inside wants to re-write the reference books. Instead, it is people like Ian who are changing the paradigms, albeit outside the stifling 'peer review' system, which, for all its sensible uses, has held back progress for too long and attempted to keep science in the hands of an elite private club.

Ian Baillie is someone who takes his work seriously, but doesn't take himself too seriously, as will be clear from the thread of humour in this book, and a general lightness of expression. Last time I saw Ian give a talk, at the Glastonbury Symposium, he managed to blow up the stage with a miniature American Civil War cannon. You don't get that sort of practical demonstration from every presenter(!), and it's a refreshing quality. Ian is a teacher by profession, and I envy his pupils – if my teachers had elucidated in his way, maybe I wouldn't have had to learn everything all over again properly after I left school. Ian's passion for his chosen subjects shines through his writing too.

This book is an opportunity to understand things you may have heard of somewhere in the 'alternative' field, but never had explained coherently or accessibly before, mixed seamlessly with the 'official' world of quantum physics and all its offshoots, which you may also have never had explained coherently or accessibly before.

Take a journey, then, through the terrain of Forbidden Science. There is no better guide to have than Ian Baillie - enjoy the trip.

ANDY THOMAS

February 2004

Andy Thomas is a leading paranormal researcher and author of four books on crop circles, including Vital Signs, described by many as the definitive guide to the phenomenon. Andy is also author of A Oneness of Mind, which explores the power of collective consciousness. He widely writes and lectures and has made numerous radio and TV appearances.

Introduction

I am a technical translator. I was born with the gift of being able to visualise complex ideas and technical information, then to distil and present that data so that it is understandable and of use to other human beings. That is why I am a teacher. I am also fortunately an artist as well as a scientist and I am therefore able to use both parts of my brain, the creative and the logical, to work together in concert. The result is this book and previously the ground breaking discovery that *memory survives mortality*, as demonstrated in my first book, *Rebel Spirit; Evidence for the continuity of consciousness*.

We live in a Universe of increasing complexity and are now at last breaking down the artificially erected barriers between Religion and Science, as we discover who and what we really are. This will inexorably lead to humanities ultimate achievement, a *Theory of Everything*. A simple elegant mathematical equation that will describe everything from the largest Galaxy cluster to the smallest Quark in our beautiful mysterious Universe. By combining the very latest ideas in Physics with the Mathematics of the very ancient past, a fusion philosophy of lost, forgotten and hidden knowledge is married to the testable and experimentally repeatable. I therefore give to you my fellow time traveller, *Forbidden Science; A beginners guide to understanding nearly everything*.

I chose the path of science as it offered a way of explaining *how things worked?* I have always wanted to know how things worked, right from day one of this physical life. But, how do we do this? This book will be an attempt to reconcile the irreconcilable in that we are going to try to examine certain aspects of several groups of anomalous phenomena and to put them into a rational framework that complies with science. For too long we have laboured under a very limited political view of what science is. Science simply put is the pursuit of truth. It is a method, not

a subject. We should strive to push back the frontiers of knowledge, to enable us to have a better understanding of just who we are and where we live and our position within the universe. But for reasons of control that has not always been the case.

This has been quite a voyage of discovery. It started for me as a very young lad of 11 and has continued ever since. For the last 25 years I have been teaching science and presenting it to my students, many of who have decided to take it up as a career. It is always very gratifying to know that in some small way we help one another on our way through this life. It is very important to understand that the cycle of teaching and learning is a continuous one. It is a circular, not a linear process. I have learnt more from my students than they have probably learnt from me individually. Every day I learn something new and that is a process of life; it never stops.

Many people have asked me during my talks and lectures to put all this down so that they could read it and understand it, so this is what I have attempted to do in this volume.

Science is a method; it is not actually a subject. It is actually something we do. We make observations. We then formulate experiments to see if our observations are correct. From the experiments we start to get some understanding of just how the phenomena we were initially observing operate.

There is a cause and effect law in operation for most things that we observe. We inhabit a physical universe that appears to us to have a duality in nature and therefore there is always an up and there is always a down; there is always a left, there is always a right; black and white, male and female, inside and outside. This is the physical universe we observe and describe. Once we have formulated our experiments and we have started to gain some insight we try to formulate a law. The law is testable. "You canny break the laws of physics, Jim?" This resonates as one of the famous phrases used by Scottie, Chief Engineer of the Starship Enterprise.

The natural laws of the universe are summed up in what we call physics - the study of the *physical* universe. As a pupil I spent several years writing the word physics on my exercise books and yet never understanding what the word physics really meant! It was just something I did, it was called physics. Gradually I evolved an understanding that it was to do with the laws of the natural universe. It was mathematical. This tends to turn a lot of people who are

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non-mathematicians off, but really it is quite simple once you get the hang of it. I had to struggle, so therefore, I am perhaps able to explain it better than other people. I hated physics at school. It is ironic that I ended up teaching physics and subsequently gaining a Ph.D. in physics!

Another traditional subject of science is chemistry. For me chemistry is the study of bangs and smells. It comes variously from the Arabic *al-kimia*, combined with Greek - *chyma* -fluid. Also interestingly the word *gibberish* came from the complicated formulas written down by an early Arab scientist.

It is very important to remember that we are all scientists and that even when we make a cup of tea we have formulated a method for producing that cup of tea. Once we have formulated our laws of physics, they are testable. That is, they are infinitely repeatable and repetition is an important part of science, because we are looking at something that we can always be tested - it then has that elusive quality that we can call - *real*.

Yet, the laws of physics are only as good as the next time that we put them to the test. For example, if I drop a piece of paper on the floor I observe that the piece of paper always falls downwards and hits the ground. I repeat the experiment and I gather and formulate an idea that there is some force always in action. This force, as Sir Isaac Newton termed, is called gravity and Sir Isaac Newton formulated the laws of gravitation. It is always repeatable. Every time I do the experiment I make a prediction that the piece of paper will fall down and then I do the experiment and, lo and behold, it should work.

If for some reason one day the piece of paper floated up to the ceiling then I would have to revise my laws of gravity. Just because something is a law and is in operation does not mean that it will always be a law. This is a dynamic universe and subject to forces and uncertainties. Although these operate at a very small quantum level we see a stable world at the large level, so to us everything looks very real and solid.

Chemistry is an attempt to identify the building blocks of our atomic reality: made up of the chemical elements that build everything around us. Surprisingly we found that it was fairly simple and after a process of only 2,000 years we formulated and have gathered that there are approximately 117 elements which we can label and dissect under the microscope. We further predict that there will be a total of 144 when all are accounted for in the known physical universe. These are our Lego blocks for the building of the physical universe.

Ian C Baillie

The third science, traditionally, is biology. Biology is the study of life - *bio* - Greek for life and - *ology* is Greek for 'the study of'.

Life bucks the trend. Life doesn't always obey the laws of physics. In fact, some physicists say that life shouldn't exist at all and that we therefore should not be, because it is the natural law of the universe that everything should fall into chaos and disrepair. This is called *entropy*. A hot cup of tea becomes cold and therefore life should become death, yet we see every day the miracle of life growing from a seed against the flow. This is one of the reasons I took up biology, although at a later stage when I studied at A' Level, as it bucks the trend and being a rebel I like things that don't obey the system. Traditionally chemistry and physics have always gone neatly together and biology has been regarded separately. Mainly for the reason that the true explanation for the mechanism of life up to now has been elusive or dare I say enters into the realms of spirit and the domain of religion!

However, I learnt that this wasn't all there was. Many such subjects are now regarded as sciences, but *Forbidden Science* is a description of what I came to realise was all the anomalous phenomena that were never discussed in the open. The house of cards that is science, with its attendant subjects, has been built as a pillar of understanding. Anything, which shakes that pillar, is shot at immediately and its destruction attempted. Very much as medieval heretics were burnt at the stake, many orthodox scientists will attempt to burn the new kid on the block at the stake for having a revolutionary idea.

Professor Jacques Benveniste, M.D., is a good example:

A Homeopathy Theory: The Memory of Water

While studying allergies in 1984, Jacques Benveniste, M.D., research director at the French National institute for Medical Research, observed that when highly diluted solutions, or homeopathic remedies, were administered to allergy systems, the systems reacted as if molecules from the active ingredients were, in fact, still present; in other words, it appeared as if water retained some trace of the active molecules. This controversial theory has since become known as "the memory of water."

Source: Nature, 1988, vol. 333.

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He was an esteemed scientist in France, with his own laboratories and funding, and he dared simply to say that memory might be a factor in water systems. His idea that water could contain a memory caught the popular imagination. This was based on his work with diluting various substances until there were hardly any, or no, traces of the substance originally left. Yet when injected into people they responded as though the chemical was still there. All he suggested was that it might be a good idea to investigate this further and immediately he was censored, his funding withdrawn, and lost his credibility. Yet he was a true scientist, a person questing for the truth, and no matter how uncomfortable that truth is, or how many sacred cows have to be slaughtered, we should always pursue the truth. Unfortunately, with peer review and constant pressure from the people in authority, whoever they may be, funding can be withdrawn, people can lose their jobs, and therefore their livelihood and their mortgage. This makes for a very rigid system, the very system that should be pursuing truth is self-limiting - almost to the point of blindness.

Forbidden Science is therefore an attempt to review the progress made in the understanding of some interesting subjects, such as consciousness, within the framework of the physical laws of the Universe. There is no point in looking for new ideas in old stuff. If we review all of our old favourite experiments and all of our old knowledge, we become like a child playing on the floor with the toys we know and love, but we very rarely learn something new. We must have a new toy to play with to learn new information. We do this by looking at anomalous phenomena rather than ignoring and hiding their reality. We should be embracing all anomalous phenomena and looking for new processes, new mechanisms and new techniques that we can learn from. Fortunately we now live in a Universe, which has much better instrumentation; we have video cameras to record unusual events, which can then be replayed and witnessed by the majority. This is an important step forward. In the past, if a person saw something unusual, they would not have been able to have 'proven' to their peers that they had actually seen it. As it wasn't demonstrable and repeatable they were very often ridiculed and therefore they learnt to be quiet and not to draw attention to themselves - again, a self-limiting process. We are only as good as our instruments and these have improved beyond measure over the past several decades.

It is important for us to address the big questions in science and not to hide from the big issues that have scared us up until now. We now

stand on a mountain of detailed information that we have collected over the last 400 years of discovery, but we still have very few answers on the big issues. Always the question "why?" is at the bottom of the heap. We as scientists can tell humanity what, how, where and when to most physical phenomena. And we can measure these to some degree, but we cannot tell humanity why.

Therefore consciousness, the individual and collective will, the power behind the phrase *I am*, the id, and various other labels for this phenomena, has so far escaped detailed analysis in terms of its physical mechanism, despite being researched to the point of exhaustion in other fields such as Psychology. But we must as physicists attempt to explain everything or nothing: we cannot just choose the bits that we want to explain and leave the rest. Humanity now stand at a crossroads of opportunity, when as we approach 2012 and are now living in the 21st century we can tackle this previously overwhelming and taboo question. In the past religion attempted to explain consciousness, in terms based purely on faith, which to the trained scientific mind is illogical. They have failed therefore to come up with a definitive answer. Science should now attempt to address this vacuum and therefore we are now living with a new concept of how the universe works and how we can build an understanding of consciousness. I have previously described the whole concept in one simple phrase to sum up this new understanding:

'The universe is simply a product of the interactive, harmonic resonance of complex wave forms created, ordered and sustained by consciousness.'

If we can truly find an elegant solution for the universe in a *Theory of Everything* then it must be something as simple as a design that we can wear on a T-shirt. Einstein's famous $E = MC^2$ comes very near to this, as does several other of his equally elegant formulae describing relativity.

I intend to make this book fun, it should be more like *The Hitchhikers Guide to the Galaxy* rather than *A Brief History of Time*. Both books are extremely good at what they set out to do. Stephen Hawking opens up and surpasses common barriers in the mind to help people understand the universe we live in. However, many people find it extremely difficult to read. His new book *The Universe in a Nutshell* with its wonderful graphic illustrations, is a much braver attempt to get across some of these complex ideas that he and his colleagues in cosmology have. Being that they operate through complex and advanced mathematics, their work is very often excluded to the rest of the people

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on the planet. However, true masters of their subject, such as Stephen Hawking is and Einstein was before him, are able to make complex ideas simple and therefore understandable to the majority. And in the end, they should be, for an elegant universe should be understandable by everybody. The late Douglas Adams in his monumental work sets out successfully to highlight the absurdity of existence based on his understanding of complex scientific concepts such as quantum probability. It is a contemporary classic of modern times in its genre and as such a must read.

In order to reach the widest possible popular audience my book has been deliberately designed to be user friendly and through the use of art much more *Hitchhikers Guide* in tone than the *Universe in a Nutshell*. Although I will attempt at every turn to explain the correct science that goes with the data surrounding the anomalous phenomena discussed. Therefore this is not just a whimsical book, it is not just fiction, it is a real attempt to rationalise all forms of anomalous phenomena with hard science, repeatable, demonstrable, and ultimately truthful statements.

This book also takes as its central theme the inspiring works and mathematical theory of Ron Pearson who has laboured unceasingly since retiring from a lifetime of achievement in the engineering field and is now addressing successfully the inconsistencies that exist within the *Standard model* presented in cosmology. For here is a keen intellect from another scientific field who is presenting a fresh perspective on the evidence so far accumulated by humanity in this most profound subject. Uncluttered by the traditional mindset engendered in the discipline of cosmology, Ron has formulated a most elegant and testable complete *Theory of Everything* rivalling *Relativity* in its accuracy of prediction and magnitude. Crucially it is also finally able to unite with that other giant pillar of modern physics *Quantum mechanics* thereby solving the longest standing dilemma facing science in the past twentieth century. It is my great pleasure therefore to champion this work published originally as *Intelligence behind the Universe* and to enable it to reach a wider audience through a simple narrative interpretation of Ron's complex mathematics combined with the powerful visual imagery of art.

Every human being is looking for answers. We all of us build a conceptual model of the universe in our mind, whether we do this consciously or unconsciously it is up to the individual. Everybody is different, everybody's model is different to everybody else's and that is how it should be. We should celebrate being individual. One can live

one's whole life as an artist without knowing how paint is made or how canvass is produced. One can simply use the materials to express inner emotions and one's own conscious identity. In that way we are actually shaping the world around us. We are part of that consciousness which takes materials and shapes things. I look out now on the reality of our world and it is very different from a human being 25,000 years ago looking at the world then: for we have shaped through technology the world that we now inhabit. Our consciousness has moulded the physical matter around us to give us the landscape of today. It is one in which we live, but as you will discover, it is very illusory. It is in fact all an illusion; for we have created an artificial environment from the matrix of atomic matter that surrounds us and is us, in which to live. This has become in some ways a prison for the mind, because we cannot break out and explore the universe without first breaking through the prison walls of matter that we have constructed around us.

We are now about to do this. It is my belief that within the next few years, leading up to 2012 if you like, as a jumping-off point, that we will undergo a revolution of consciousness. This book, therefore, will help the reader formulate his or her own new view of the universe. It may throw some light into dark corners and help to explain the technical processes behind our everyday experience. Many of us are now exploring the use of our minds to greater effect and exploring our own personal consciousness. In my first book *Rebel Spirit*, I described a documentary journey of discovery that had occurred within myself, enabling me to unlock the past life subconscious memories that had shaped my own path in this life. I felt compelled to relate this story to other people so that it would help them in their own journeys of self-discovery and gratifyingly this has been the case. Now it is time to explain precisely how that continuation of consciousness between physical lives is able to take place according to the new physics and this will be the underlying all prevailing topic that I will pursue in this book. If the reader is truly able to understand this then all else follows and this humble book will have completed its allotted task.

I further intend to examine holistically many other various anomalous phenomena, from crop circles to UFO's in this single volume and to explain my understanding of the science of these phenomena for the benefit of my fellow compatriots journeying with me through the universal atomic matrix of physical reality. I therefore hope that this book will bring as much enjoyment and illumination to

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you the reader, as the journey of discovery in finding this information has brought to me.

Ian C Baillie
February 14, 2004
Hythe, Kent, UK

Chapter One

Understanding the Structure of the Universe

We live in a physical universe and central to our understanding of how all other phenomena interact and exist within that universe we must first understand what the universe is. The universe, by definition, is everything: it is the whole, the one. Everything that can be fits within the one. There is nothing that cannot be that isn't in the one. Therefore, the prefix *uni* means one and the word *verse* means a stanza of a song. So in the overall effect of the etymology of the words we have, universe - one song. All that is, all that can be, is sung into creation by one song or by vibration. And in this we have the very essence of what the universe is. It is vibration. What is vibration? Vibration is simply energy in motion.

Straightaway we try to formulate with words, very complex ideas. The word *energy* is defined in physics as the ability to do *work*. Energy makes things happen. Energy *is* the universe and this is expressed by vibration. Vibration manifests itself through forces and we feel the effects of these forces in our everyday lives. As conscious beings inhabiting a body that is carbon-based, made mainly of water, with a dash of chalk and a pinch of a few other chemicals, we are vessels for consciousness; literally containers of consciousness. The one consciousness as we will discuss and discover is at the basis of the mystery of the universe. For there is only energy shaped by consciousness. One is led into trying to understand whether consciousness came first and shaped the energy, or whether the energy came first and consciousness was shaped by it. It is the chicken and egg conundrum. In essence, are *we* as sentient beings a product of complexity or is complexity a product of our own original creator consciousness? It is not just a philosophical question, but one that we

are starting to address in science, because we cannot go forward without an understanding of the universe, without an understanding of consciousness.

Over the years I have carefully weighed this ultimate question and have decided finally to come down on the side that consciousness came first. Therefore, really, I have returned to the tenets of religion. For even though I have tried not to be religious and not to believe in things, I find that in the end it is a quantum universe and that the very act of believing in something is a creative act and therefore manifests very often a tangible product. It is profoundly important then for us to realise that we are collectively the architects not the victims of our own collective consciousness. This is extremely hard to swallow when after a lifetime of trying to be scientifically objective one eventually discovers that the universe is totally subjective!

We are therefore part of the universal machine, not separate from the machine, and this basically splits us from the Newtonian world of a clockwork mechanical universe, with us the observer being separate from that *mechanical universe* to the new understanding that we are part of a *quantum universe*. In that the very act of observation actually alters the result of the experiment. Therefore we are an intrinsic part of the creation as a whole and not separate. As a fractal of intelligence (a *fractal* is just a self-similar piece of the whole at a different order of magnitude) we are part of that one universal consciousness, which we are now starting to understand exists at the sub-quantum level. Religion has struggled for many centuries to try to explain this in philosophical terms through its many and varied doctrines, but alas without the tools and benefits of science. For as Albert Einstein so succinctly put the problem into context, 'science without religion is blind, and religion without science is lame.'

We now understand that we exist intrinsically as part of an all-pervading energy filled universe, which appears to us as a vast endless sea of vibration and therefore straightaway it becomes self-evident that to understand vibration is to understand waves and waveform. The universe is simply just a sea of waves - this metaphorical analogy successfully conjures up the essence of the image we seek. Now this is very hard for the average person to understand when we take a look at ourselves and the room we are within or the world around us, as we see so called *solid* objects. How can all these solid objects be made of waves? For waves, by their very definition, are ephemeral, ever-moving energy

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forms, complex and dynamic, so very different from the indivisible hard points of matter called atoms. But this is the clever part of the illusion and essential to understand in order to progress to a deeper level of perception.

Physical matter is just one facet or plane of this complex puzzle. It is merely the tip of the universal iceberg, which like its more familiar counterpart is nine-tenths under water, yet until recently we have only seen with our own eyes the one-tenth above. In this way some 90% of the universe is invisible. It is precisely that giant mountain or iceberg, of energy that we can never perceive during our everyday reality that underpins the illusion. For we blunder like mice blindly through the physical atomic matrix of everyday existence without an inkling of its awesome presence, our senses dulled by simple familiarity.

The reason for this is that we are ourselves physically made up of atoms. And atoms, by their very nature together with the instruments that we make of atoms, are far, far too coarse to measure the minute waveforms of energy at the sub-quantum level, which are very, very fine and exist within a higher vibrational frequency to our own clumsy material bodies. This does not mean that they cannot exist, for we are now starting to create instruments, which are able through resonance to detect this energy. And the hunt is on for what we term zero point energy, which is understood to be the basic cosmic jiggle of the universe - that great sea of untapped energy, which we know is there and it is just a matter of time before we are able to tap into. It invisibly powers the very wheelwork of nature, for as we observe constantly all matter spins through the heavens from the tiniest quark to the mightiest galaxy cluster with no visible hand pushing it along. For there is no crisis on our planet that cannot be solved with knowledge and application, there is merely a crisis of ignorance. Once we utilise this eternal infinite source of energy, we can quickly clear away some of our major problems and make better of the situation that we find ourselves in. Pollution is an example; we are merely taking out different chemical elements and concentrating them so that they cause a problem. It is true that a few chemical elements have been produced in atomic reactors by us since 1945, such as Plutonium, which is extremely radioactive and toxic, as such we have created our own problem, which we must then disassemble and make safe despite the economic cost. It is important to comprehend as previously said that we are the architects of our own dilemma and not the victims.

Therefore understanding how vibration gives rise to matter (the mother substance - from *mater* - Latin for mother) is fundamental in any basic cosmological model. Creating matter ...how do we create matter? The ancients tell us that everything is made of light. Yet light as we understand it is just simple *transverse electro-magnetic radiation*, but it had a deeper traditional meaning as a label for all energy. Excitingly, it now looks as though we have discovered this for ourselves! For the latest research shows that all of space may be created from *scalar or non-hertzian longitudinal electromagnetic waves of energy*. This creates a three dimensional fabric that spans the universe and gives rise to what we call space. I used to think in error that matter was something and space was nothing. But good old Albert soon put me back on the right track for - *space and matter are all one thing!* Einstein eloquently summed it all up - *matter was simply thick space and space was thin matter*. Some workers suggest that when scalar waves curl up, spin and vortex they gain in density and mass. Therefore instead of a wave in two dimensions simply going up and down, the wave is more like a corkscrew in that it spirals in its travel and creates a stable shape from its own self-sustaining spiral vortex form. We will learn later on that this is variously called a spin vortex doughnut, toroidal doughnut, a vortex-shaped energy pattern or simply a toroid in mathematical terms and that this is possibly the prime shape for producing basic matter.

Vast amounts of energy are captured in the smallest piece of matter. Einstein's famous formula $E=MC^2$ - energy equals mass, times the velocity of light squared - demonstrated that there was an incredible amount of energy in even the smallest piece of matter. However, Einstein only went so far. He never explained how or what matter was made of at the primal level. This was partially due to his own self-imposed rejection of quantum mechanics because he could not make it fit with his celebrated relativity theory. He believed his own calculations, but simply couldn't dovetail them with relativity - they just wouldn't match up no matter how hard he tried; could it be that one of them was wrong? This question nagged at him until his dying day. Similarly he never openly explained in essence what time was as the corner stone to the cosmic illusion - perhaps he did not wish to undermine the various religious powers that held sway in his day? In short he told us how it worked, but not what caused it or why and for that he earned his rightful place in history.

A few years ago I had the great fortune to personally meet a pivotal

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person trying to unravel this mystery, Ron Pearson, who at present is helping humanity to grasp a new view of the universe. He has successfully developed a consistent mathematical theory that controversially replaces relativity and is yet entirely consistent with quantum mechanics. He achieved this remarkable feat by starting with quantum compatible assumptions and through using extended Newtonian mechanics was able to derive an alternative theory that not only rivals, but also exceeds the predictive power of relativity. In May 1995 at a groundbreaking conference on the survival of consciousness over death at the University of Kent, Canterbury, I was fortunate enough to have a long discussion over lunch with this august gentleman. For me it was to be a major turning point in my own development, in that we were discussing for the first time a *forbidden science*, it was the taboo subject of all taboo subjects, death was not supposed to be talked about by scientists. As with the Victorians covering piano legs to hide eroticism so the veil equally was drawn conveniently over the process and topic of death. Even the very word death itself probably has more euphemisms than perhaps any other that I know. And so we had a glorious day of taboo breaking, with many esteemed scientists talking for the first time, in public, about the phenomenon of death and the possibility of the continuity of consciousness. At the beginning of the conference I had the great fortune of listening to Ron and his lecture outlining his *Quantum Newtonian* view of gravitation as an impressive and more accurate rival to *Relativity* for explaining the Universe at large. After, quite by chance in the refectory of the University of Kent at Canterbury, I managed to attract his attention, he came and sat down at my table and we were able to engage in conversation. Although the conversation was general as we had been joined by two other members of the audience it was, however, very memorable and I was struck straightaway by the sincere and honest truth of Ron's mathematical arguments.

I said on that day to Ron as we walked back to the auditorium, that tomorrow he might well be regarded as the Einstein of the present. As future generations may look at his work and say - *yes, it put us back on the right track*. Einstein's greatest worry was the fact that he may have led the human race up a blind alley and on his 70th birthday he expressed this as his greatest fear. This was some measure of the greatness of the man that he was actually able to admit to the public his own fallibility? In that way we are all seekers of the truth and we have no monopoly on

that truth, we merely try to further humanity's understanding of its own condition. Even to date despite many mathematical head stands relativity still does not marry up to quantum mechanics in any way shape or form - one of them has to be wrong and my money is on relativity. Yet as with so many sacred cows of knowledge, scientists are reluctant to dump the cherished theory - *all heretics queue for burning over here please!* Even now peer refereeing censorship still prevents Ron's theory from entering the mainstream publications of the science body politic in the western world, despite ironically being recognised and published in the former USSR, a regime known at the time for its rigorous censorship. As with the pioneers of radio and television Sir Oliver Lodge, Sir William Crookes and John Logie Baird it may have more to do with upsetting the establishment and our political masters than bad science?

I think it would be advantageous to now have a brief résumé of Ron's theory of quantum gravitation described in Ron's own words. Readers wanting to examine this in detail are heartily recommended to peruse the bibliography and to order information as required.

Two major problems in cosmology are addressed and solutions given. One is the result of the failure of theorists to find a way of switching off the explosive 'Big Bang' of creation. The continued explosion is then called the 'cosmological constant' pushing the galaxies apart at absurdly high rates. The other is the failure of all attempts to reconcile Einstein's theory of gravity called, 'general relativity' with the other so-called 'pillar of 20th century achievement' - quantum theory. The latter deals with the small-scale mechanics of the atom.

The solution published in *Frontier Perspectives* showed that a background medium needs to exist built on two kinds of energy: positive and negative. The negative kind is defined as having the force needed to accelerate an object pointing opposite the direction of motion it produces, instead of the same direction as in the case of positive energy. This idea is not new, but the way it is applied is novel. Primary particles of these two kinds are shown to self-create by collision and also mutually annihilate to form a filamentous background structure appearing very like the neural network of the brain. It evolves an immortal conscious intelligence but all it can do is to produce waves to generate the illusion of matter out of itself and at the same time the same waves produce long range density gradients. These produce the force of

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gravity and mathematical analysis matches the predictions of Einstein's relativity theories. The latter need therefore to be abandoned: nobody is ever going to reconcile them with quantum theory, because no background medium can co-exist with relativity.

However, the new approach suggests that human minds could be partitioned-off fractions of the background, *etheric mind* and so could be immortal. Most other psi or paranormal phenomena can also be shown to fit in nicely with the new solution.

This article was published in the scientific journal *Frontier Perspectives*, Volume 6, Number 2 (Spring/Summer 1997) (The Center for Frontier Sciences at Temple University, USA) It shows how the subject of survival is related to creation, and provides a solution to the gravity problem. Ron has suggested that the word "*nuether*" be replaced with "*i-ther*" meaning "*intelligent ether*" and has kindly given permission to publish the article in its entirety in this book.

Readers wishing to read Ron's Theory are invited to study it in Appendix One before continuing with the chapter.

So, as we can see, Ron's theory is much more comprehensive and consistent than Hawking's explanation and predicts that paranormal phenomena may be explained as part of physics rather than dismissed out of hand as in the past. Importantly at a sub-quantum level both negative and positive primary particles are spontaneously generated from the vacuum. They exist fleetingly and then immediately self-annihilate on contact, returning to the vacuum. Total energy requirements remain in equilibrium at all times. Straightaway we were on firm ground. The mathematics of this are solid, we come from nothing we go to nothing so what have we lost? - Nothing! Stephen Hawking, Roger Penrose and other cosmologists similarly also use a particle, anti-particle model to explain the springing from the vacuum by quantum fluctuation the physical universe that we see. We are talking at this level of the actual fabric of the universe itself. Other workers also suggest that a vast sea of vibrational energy giving rise to minute particles, made from pieces of vibration, literally pieces of spinning wave can build sub-atomic particles at a more macro scale. Although the bubbling occurs at a very small scale - ten to the minus 35 metres, 10^{-35}m - the nucleus of an average atom by contrast is in the order of 10^{-12}m . It is even harder to imagine the size of something that has a

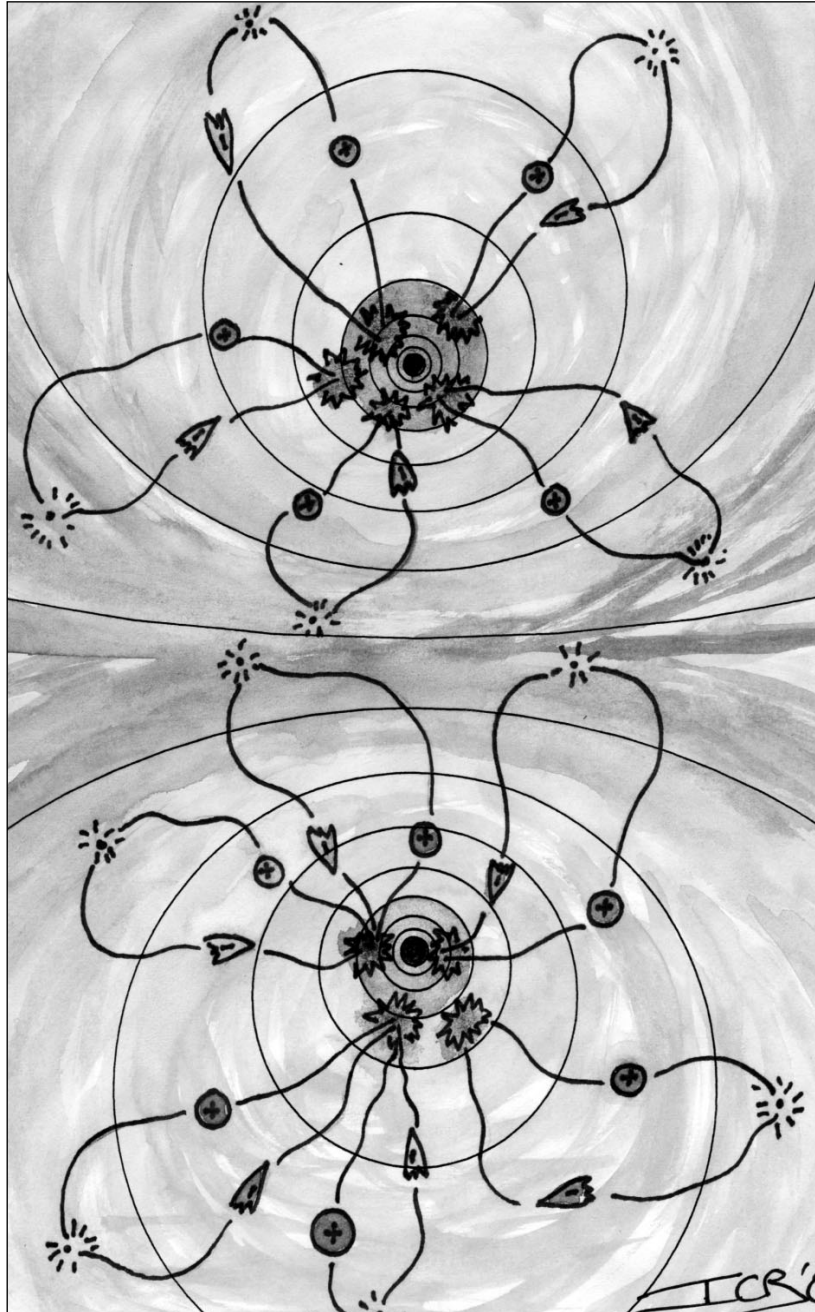
zero, then a decimal place, followed by 34 noughts and a one - yet that is the very level of existence that we are attempting to define with our inadequate and clumsy language - no idle task!

To gain a measure of perspective, if we look at something the size of the sun and compare it to the size of an atom we have some idea of the scale we are looking at for each individual atom becomes the sun and the waves we are talking about with their associated particles, are the size of an atom ... very, very small indeed. This is described as the zero point, from which the vast sea of invisible energy, making up 90% of the total universe springs. The vacuum gives rise to a positive particle, which has more rest energy, and a negative particle, which has more kinetic movement energy. It is this basic asymmetry that gives rise to the universe we see and is indeed mirrored at a higher level with the comparatively massive positive rest energy of the nucleus of an atom balanced by the negative kinetic energy of the electron; as above so below. Everything is either moving or at rest and when the energy is at rest it is preparing to move. The natural state of the universe is for everything to be moving, it is a dynamic universe and this is termed as Erol Torun put it in his *complexified aether theory* 'the model according to quantum electro-dynamics'.

Continuous creation and annihilation

The positive particle and the negative particle exist for perhaps shorter than a picosecond, that is 10^{-12} seconds in physical time, they return then to the zero point as they collide and annihilate; this is a constant eternal process producing the physical universe we see. Quantum probability will then produce a clumping of the zones of creation and the zones of annihilation. In other words, it becomes lumpy not even, much like the fact that blueberries in a muffin are never uniformly distributed. The best way to pack this finite space is with long hollow strands similar to hollow tube shaped pasta bubbling away in boiling water. These strands form a writhing sea of filaments of energy, which form the universal grid at a sub-quantum level. This is the grid or fabric, which was termed in the 19th century the *ether*, but conventional measurement in a number of classic experiments failed to detect this *ether*. The Michelson-Morley experiment of 1887 was the most notable attempt, this failed to measure the etheric wind and the theory was largely forgotten. But as waves must propagate in a medium it is still quite logical that waves propagate in an *ether*. The bending of space due to gravity would also tend to suggest a

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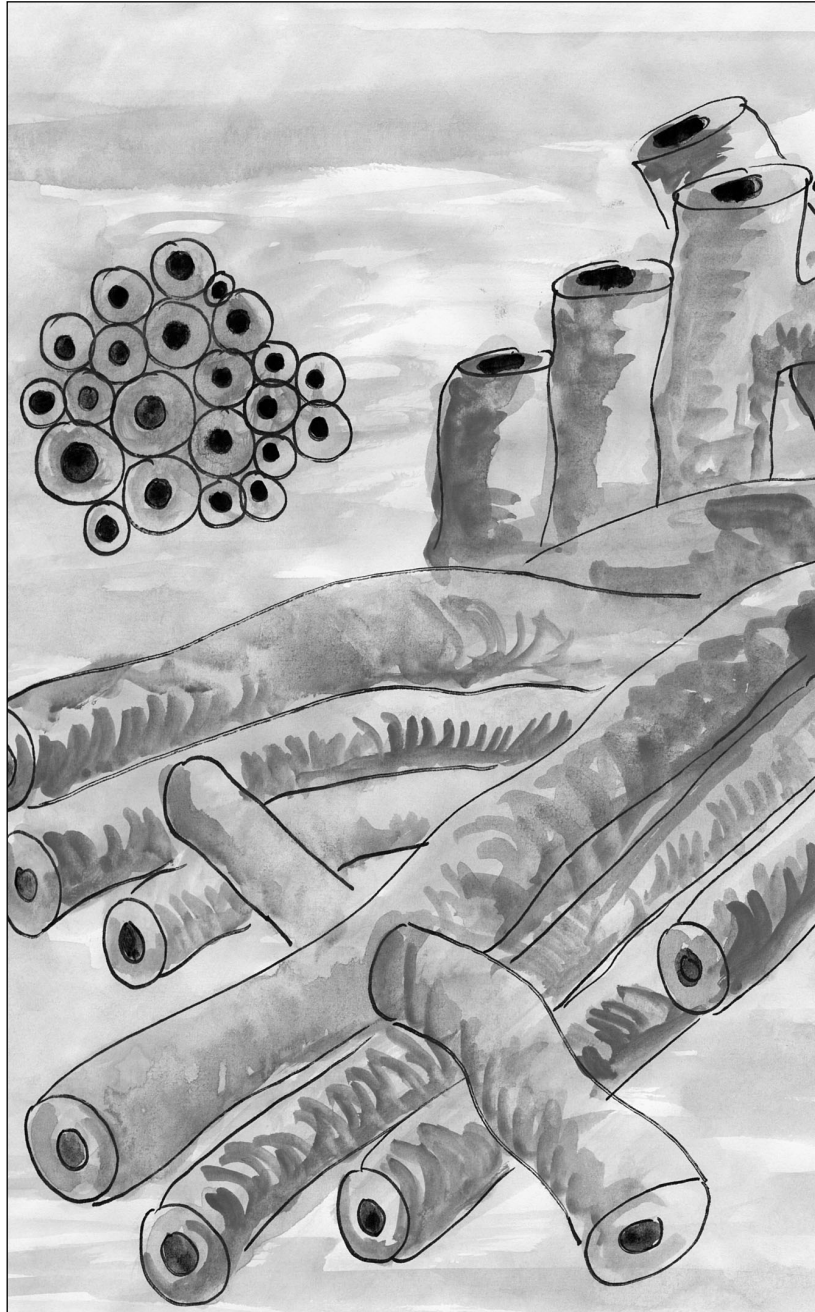
Continuous creation and annihilation

background fabric underpinning the whole system. The term 'complexified aether' is a new way of expressing this whole idea. However, the whole idea of the ether has recently found new champions and been resurrected, E W Silvertooth in 1986 challenged the Michelson-Morley null result, claiming that there was a fundamental flaw in their apparatus. The hunt is still on to prove the ether theory with bigger and better experiments involving new technology and gaining some success. I believe firmly that Ron's mathematics will be vindicated eventually as the results come in. As we speak the cosmologists are busy pondering over the latest observations from deep space that show an apparent speeding up in the expansion of the universe, this fits no known previous theory, yet exactly fits that of Ron's mathematics for quantum gravitation. Perhaps they as the esteemed Victorian academics before them do not like being found wanting by an engineer! Professional jealousy has often stood in the way of progress throughout human history. Yet, modifying their stance recently, even the many classic cosmologists who hold sway in authority agree now that we probably exist in a membrane construct. They term their new theory *m-theory* and they talk of membranes within which we exist, for membranes read wave constructs and our very own Ronald D Pearson got there first!

The Universal Grid

Therefore as we have now discovered an amoral *Universal Grid* gives rise to intelligence; Ron's mathematics also demonstrates and predicts that intelligence will rise from this continuous process of creation and annihilation. The Grid can memorise and become intelligent by creating a sort of neural net. This includes a closed joint or an open joint logic switching system. Information can be stored as the filaments rise, break or make contact. So the Grid can be switched on, if there is a closed joint, or off if there is open joint. In this way the Grid can produce a myriad of bi-stable logic switches in every single droplet of space and that space can therefore contain *memory*. This is remarkably similar to the billions of logic switches that store information in the silicon chips of our own home computers. We may have unintentionally built memory machines in silicon mirroring that which happens naturally at the macro level in carbon; for computers and organic life forms read artificial and natural memory machines! As above so below - I find this an interesting analogy and one that is easily understandable.

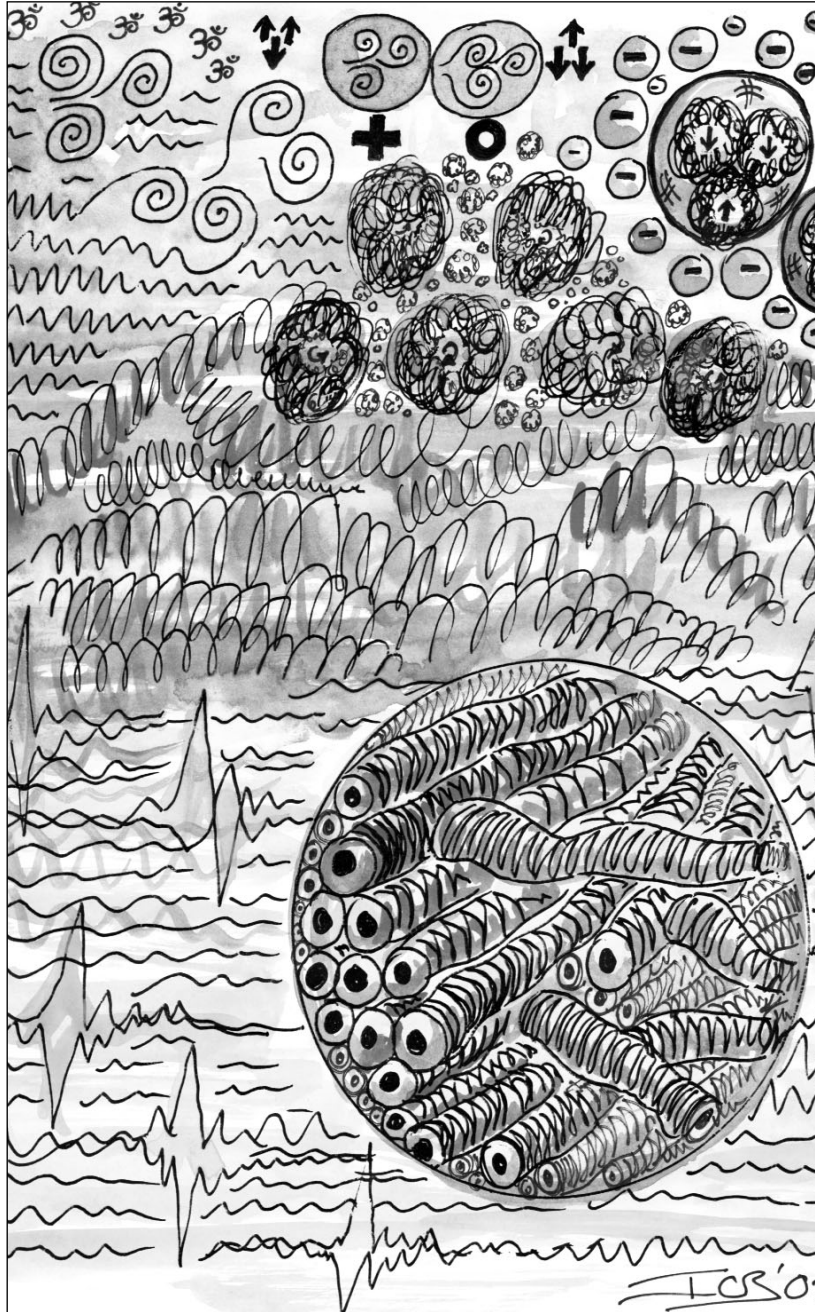
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The Universal Grid

The universe therefore develops a mind. It starts to expand its own memory, its own consciousness, its own sense of being. For if it can memorise it can learn from experience, because it can memorise and learn it can develop. Being a lonely energy system the only thing the ether can do is to oscillate in order to form waves. A sort of universal vibrating jelly is created. The only thing that this universal *Jell-O* can do is to make waves so therefore everything that can be has to exist and be made from these waves. The waves it creates are called *standing waves* and these have a semi-permanent nature. They are literally spikes in the ether. The waves now become sub-atomic particles. Eventually these particles can grow to make relatively large stable structures such as atoms. An atom is quite a large structure by comparison and is composed of many, many sub-atomic structures, charges and forces, which we will deal with in the next chapter. Our reality is therefore made up of a very large complex structures all *memorised as spikes in the ether*. Therefore to us at the macro level they look stable, but at a sub-atomic level there is a writhing sea of uncertainty. Transient sub-atomic particles exist fleetingly and then disappear, only to be replaced by another sub-atomic particle taking the place of the first and therefore maintaining the illusion of stability. We are in short as real as a television picture!

As we have said the universal *Jell-O* can do nothing, but vibrate. This causes complex waves in the ether and therefore standing waves can be memorised and sustained by the Universal Grid. This forms a *particle* or, more accurately, a *wavicle*. A collapsed quantum wave function, which some workers term *graviton*. The *graviton* may be a primary particle of sub-atomic space, but attempts to measure this have so far drawn a blank. Electrons strangely seem, as Ron has so succinctly described, to be constantly appearing and disappearing within the shell structured probability clouds orbiting every atom. Electrons are negatively charged electrical particles that *circulate* around the nucleus of an atom to maintain the illusion of solidity in matter structures. The nucleus of an atom is made up of positively charged energy in the form of a number of protons. These have more gravitational mass energy and so the electron and the proton mirror at the lower primal stages the basic electro-quantum dynamic particles. The electron travels at the speed of light, which is 7½ times per second round the world, and has hardly any mass, but lots and lots of kinetic movement energy. To balance this, the proton has lots of rest energy, giving gravitational mass and is relatively



Quantum wave function gives rise to matter

solid. Interestingly the mass of a hydrogen ion is greater than the mass of a hydrogen atom despite the added mass of the electron! Does the electron confer some anti-gravitic property in negating mass and if so was this the secret p-2 technology developed by the Nazi scientists in World War II?

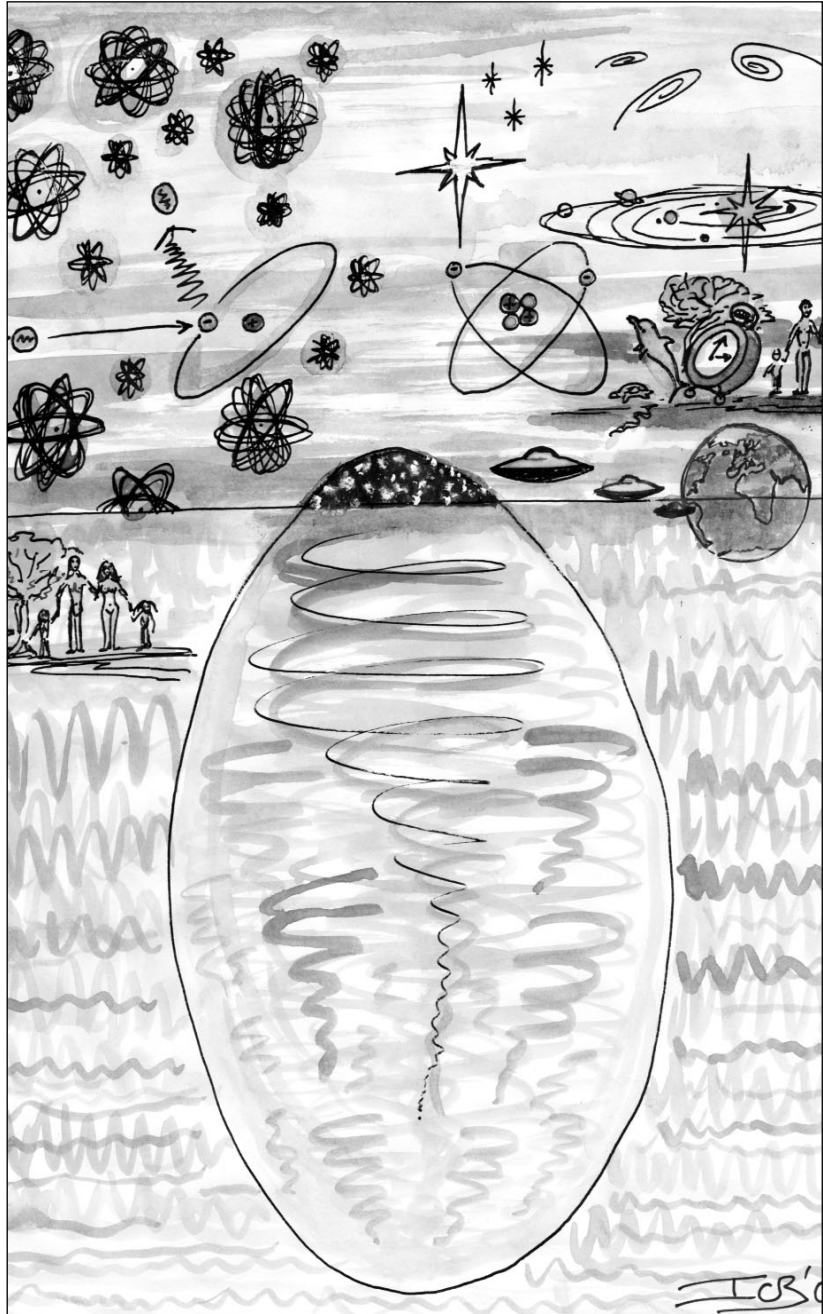
Quantum wave function gives rise to matter

Balancing this act and adding to the complexity, as scientists' discovered, is the neutron, which is a non-charged particle that has gravitational mass energy thought to be equivalent to the proton. As Einstein stated, 'gravity is experienced due to the bending of space'. But here we have a new explanation for quantum gravity from a more logical point of view consistent with the mathematics of simple mechanics. Scientists are busy trying to measure gravity waves at this very moment. They have had limited success so far, but are still attempting to detect the faint ripples in the gravity field that surrounds us, which are so fine that they are very difficult to measure.

Some workers have suggested that through harmonic resonance these complex waveforms interact to form space, a stabilised linear fabric or matter composed of vortices of dense energy. This is space and matter. At a macro level space is like a flat tri-dimensional rubber sheet made up of scalar electromagnetic energy. Matter can be seen as complex dense aggregations of condensed energy, yet space and matter are the same substance. Everything is made of light as theosophists have put it in the past; scalar electromagnetic waves pervade the whole of the Universe.

Einstein further illuminated this process by stating simply 'Space tells matter how to move and matter tells space how to bend'. So he was able to give a reasonable explanation for why planets travel in their orbits and why light appears to bend as it passes by dense gravitational objects such as stars. How can this be? Light travels in straight lines, true, but if the space itself is bent then light bends and appears to look bent as it travels through bent space. Normally we do not detect this, for we ourselves live in bent or curved space, as the gravitational mass of our planet constantly bends and distorts the three dimensional sheet of space that we exist in. It is something that we are entirely used to and would not have questioned or observed unless Einstein had drawn our attention to it with his famous equations of relativity. The whole universe may exist as a giant bent or curved sheet of space and Einstein hypothesised that in firing a bullet at the speed of light it would

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The physical/non-physical Universe

eventually travel around the whole universe and hit the observer in the back of the head! It would take rather a long time, as the physical universe is quite large. But the principle is understandable.

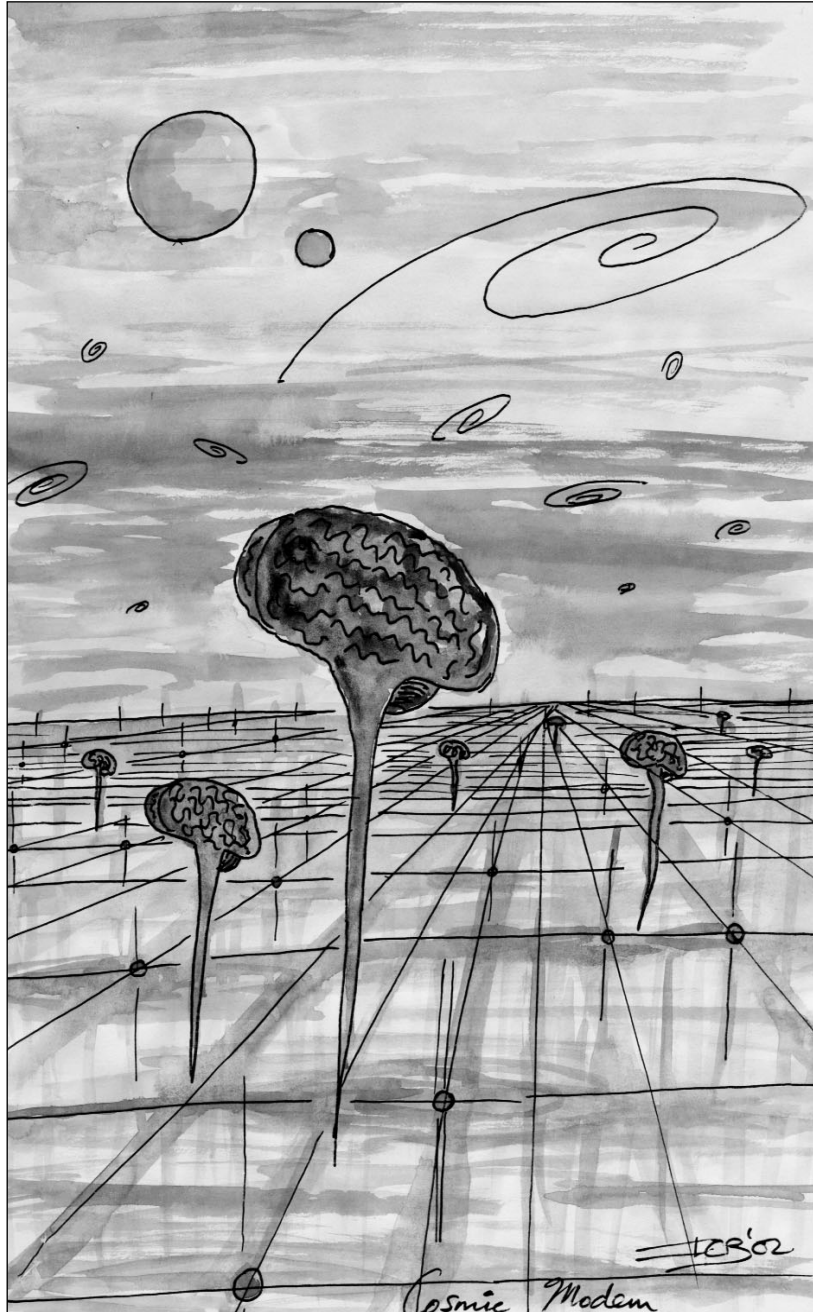
The physical/non-physical Universe

All matter is made of energy, yet most people are simply unaware of the vast amount of atomic energy stored in a simple glass of water. If we take 100 grams of matter, the energy within is equivalent to 10 000 000 000 000 000 Joules or 1×10^{15} Watts of power if released in one second, a Watt is a Joule per second; enough to blow the average sized town clean off of the map! This of course is the hidden secret power of the atomic bomb, which was developed and used, as we know with deadly effect in 1945. Ironically having unleashed this menace to civilisation in his calculations Einstein campaigned for the rest of his life for nuclear disarmament.

The early matter universe continued to evolve and experiment with matter constructs. Evidence of this continuing process is the rise of complexity with in systems be they galaxies, stars or organic life forms. Initially elements combined to make structures, structures in which consciousness could exist and diversify. The evolution of these structures is the story of life and as we know all cells are capable of containing memory within their genetic code. Eventually increased complexity gave rise to cells that could form the organ we term as the *brain*. This consists of billions of specialised cells that combine and act together in unison to orchestrate action and to record experience.

The brain, therefore, can be seen as an interface between the universal mind and the physical universe. The way I describe this now is to use the analogy of the Internet, in that the brain is really the *modem* of the system. It connects the cyber world, the Internet, to the computer. Information can be downloaded and experience can be uploaded. We too can download past life memory and upload experience. All is connected to the grid, *World Wide Web*, which is the Internet. You could call the Universe the Cosmic Internet, or as a chap I was discussing this with after I presented my *Rebel Spirit* research findings to the Glastonbury 2001 symposium termed it, the *Outernet!* It seems that, as with everything, we have mirrored that which we find in the natural world, giving truth to the expression 'as above, so below'. In the end there is usually only one good way of doing something and nature has

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Cosmic modem

usually solved the problem first, so we should attempt to copy nature, either consciously or subconsciously - and we have.

Cosmic modem

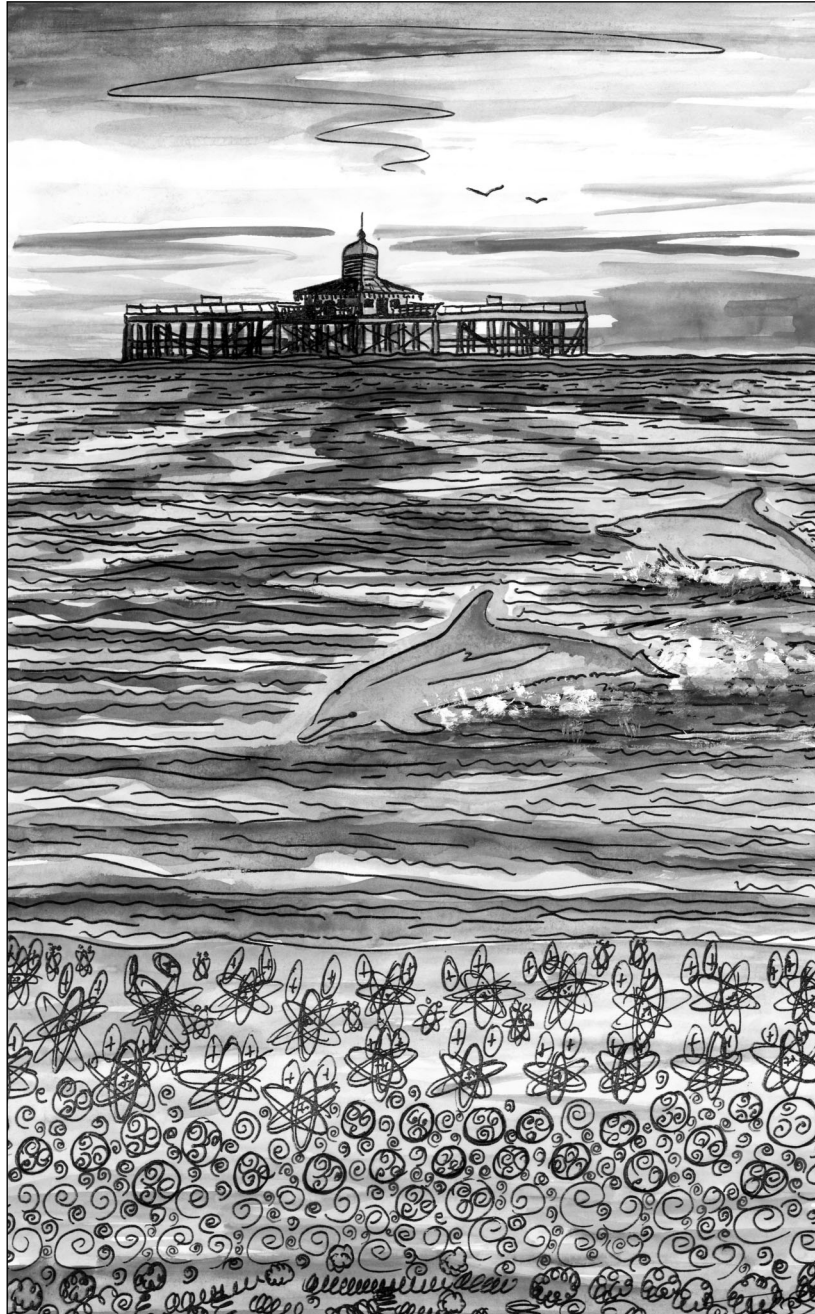
To understand that various frequencies of vibration, that is finer, faster vibrations, can inhabit the same state space is to start to understand the multi-dimensional nature of the universe. The next big secret, which is unfolding at the present moment is that the three-dimensional reality of the physical universe is only part of the whole picture. All atomic matter vibrates at a similar frequency. We think that frequency is 144,000 times per second, so matter is vibrating at an incredibly high rate into and out of reality. We of course see and *feel* a continuous picture. Our television is only vibrating at 25 frames per second and yet television looks real. Our *real* world that we inhabit vibrates at a far faster rate and therefore looks solid. For the next stage in our evolution as a species it is essential that we start to understand and make sense of the multi-dimensional and holographic nature of our reality.

There may also be far higher vibrationary frequencies. Just as there are various television stations giving different channels, so there can be different physical channels or matter systems in the real universe. One of the discoveries of Ron's theory is that it may be possible to have many of these interpenetrating matter systems and Ron has discussed this at length in his diverse publications on the subject. At present cosmological scientists admit that this is probably a 10 or 11 dimensional universe, but that several dimensions are curled up into a very small space so as to be almost imperceptible. If we understand the multi-dimensional reality as being layers then layers can incorporate the different things that we find in nature. We straightaway have a rational explanation for life. Living things can be viewed as composites, with three-dimensional physical bodies made of carbon atoms and organic molecules becoming just one part of a multi-dimensional holographic being fused with a higher dimensional self; the *ethric* spiritual body that can coexist in a higher frequency. The *ethric* body looks identical to the physical body, but it is made of pure scalar electromagnetic light, of vibrating energy at a higher frequency to the normal frequency we experience with physical atomic matter.

Tri-dimensional vehicles for consciousness

As we ascend in the dimensions and frequencies we then find that it is perfectly possible to have a memory data store. We can, as people have

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Tri-dimensional vehicles for consciousness

in the past, call this the soul, or soul memory. The soul memory is the data repository of physical experience. As we experience as conscious beings various events so we upload the information. This then becomes a mechanism for the continuity of consciousness between physical life times; just as if my computer breaks down and crashes irretrievably I have not lost my data, provided the data are recorded on my individual internet website stored in cyberspace. I simply buy a new computer, configure the same with software and access my stored information, which I can download at will. In that way organically, I too have a personal *website* or repository of experience existing as a fractal droplet of the universal data storage system. My own soul memory, that is part of the universal mind, exists as a repository of the total knowledge and experience of my own many physical lives it is accessible through my *DNA-software* that enables my *brain-modem* to interface and access the stored data-memories. All I have to do is to go out and buy another *computer-physical body*, pre-configured by the *software-DNA* (my parents did this for me!) and then I can access my *website-soul memory* through my sub-conscious once born, in order to download the information stored on it. Therefore I can retrieve information from a past existence and make use of the accumulated skills to improve my chances of survival this time around.

I am beginning to understand that this is probably how living beings function. From my own memories of the past as Alexander Baillie Kell in the American Civil War, as William Baillie in the English Civil War and as a Viking "Baillie" in a previous time earlier than that, I can tap into those memories and download those experiences. Thus when my physical body ceases to be - I still exist. My memories are still intact and genetically another body with the same genetic code, in this case a *Baillie*, will access my memories and collective experiences in the future. *So, we begin to see ourselves more as pan-dimensional holographic beings that exist across time. And that we physically exist in time at various points in order to learn.* Our ever-evolving higher dimensional consciousness is timeless and immortal - we are therefore all timelords! In truth there is only the *eternal now* of the universal dream machine that produces the atomic matrix we inhabit, and all physical beings can access/interface their own consciousness at whatever point in time they exist.

We therefore see that the ultimate source of consciousness in the Universe, is the Universe, the one super consciousness that splits itself into trillions of fractal droplets, small individual memory units, which

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then go and experience the universe. The information is collected and processed by the Universe for the Universe in ever more developing patterns. Such is the complex nature of our universe. The mind is therefore intrinsically separate from the brain and we are at last beginning to understand that phenomena such as out of body experiences and past life memories, are examples of the separate components of a pan-dimensional conscious being.

At a more general level one could also say therefore, that all matter is conscious. Even the smallest atom is manifest due to consciousness and the sub-atomic particles are kept in their ordered structure by consciousness. But as evolution occurs with atomic elements becoming molecules, then becoming complex organic molecules, building structures such as bodies and organisms, plants and animals, we see this complexity evolving and the information content increasing. It is really a trade-off between simplicity and complexity, with vast quantities of energy cooling down as the universe grows older in time to become much more complex structures, and the rise of physical complexity, which enables the rise of life. With the physical matrix prepared we are then able to inhabit space and time.

The universe can be seen in all its glory as an elaborate multi-dimensional holographic illusion created by consciousness. We are, simply, the creator experiencing the creation and, as with most things, unconditional love appears to be the universal modus operandi of the cosmos and the reason for this would be that something that had created itself would find it very difficult to actually hate itself. It would tend to be a positive experience rather than a negative experience. So, on the whole just as the slight imbalance in positive matter gives us the physical universe, so the positive attitude of the universe gives us positive unconditional love with which the universe appears to operate.

We are now developing instruments with which we can use the phenomenon of harmonic resonance to probe these unseen realms. One of the finest instruments we have in our possession is the human brain and through the use of sensitives, that is people who can tune into slightly different frequencies and experience other realities that exist within our own space, we can see into the invisible. We have up to now barely been able to see and understand that there is an invisible universe within our physical one. Spiritual and physical mediums are people gifted genetically to be able to tune into and, in some cases, manifest/interact with this invisible reality, yet they have suffered

historically from relentless persecution, torture and murder. Had they been actively encouraged, we would I feel, have made far greater progress than we have to date.

Multiple dimensions can also explain the forces we see around us. The main forces in our physical world that we experience are gravity, which is the weakest force that acts over the furthest distances, whole galaxies, solar systems, the whole universe. The intermediate force is electromagnetism, made up of transverse electromagnetic waves, which combine the electrical and magnetic forces into an intermediate force that acts over intermediate distances. The strongest force we can label 'nuclear'. Nuclear is extremely powerful as a force, but acts only over very small distances. The physicists split the nuclear force into electro-weak and nuclear-strong. This is a division for labelling purposes and is used to explain the strong nuclear forces holding the nucleus of the atom together and the electro-weak forces bonding molecules together and keeping electrons in their orbital shells.

Einstein said quite simply that all forces are unified if we simply move up a dimension. So we are really seeing fractured parts of one higher dimensional force that resides at the sub-quantum level, which penetrates into our three-dimensional reality as the fractured components labelled above. The use of dimensions is quite an old idea, especially used in geometry to visualise higher state spaces, with more connections, and we will discuss this further on in the book.

As conscious human beings we inhabit physical space for an allotted time span, traditionally three score and ten years, from which we have developed the capacity to ponder on the vastness of the universe. We are an enigma. We try to explain our own origins, but we get confused due to lack of evidence. We try to explain and define the structure of the universe mathematically, but it seems ever more complex and hopeless. Just when we think we have the problem solved we find there are more questions and to every question answered there are raised several more questions. But we should not give up, for the journey is everything. Thanks to the process of science the blinkers are off now and we are allowed to experiment and discuss to some degree without interference from politics and religion. We at last can express our opinions openly without fear of physical retribution from church and state. Our society is moving towards greater freedom and an intellectual evolution of the mind powered by the information society and that has to be good for everybody.

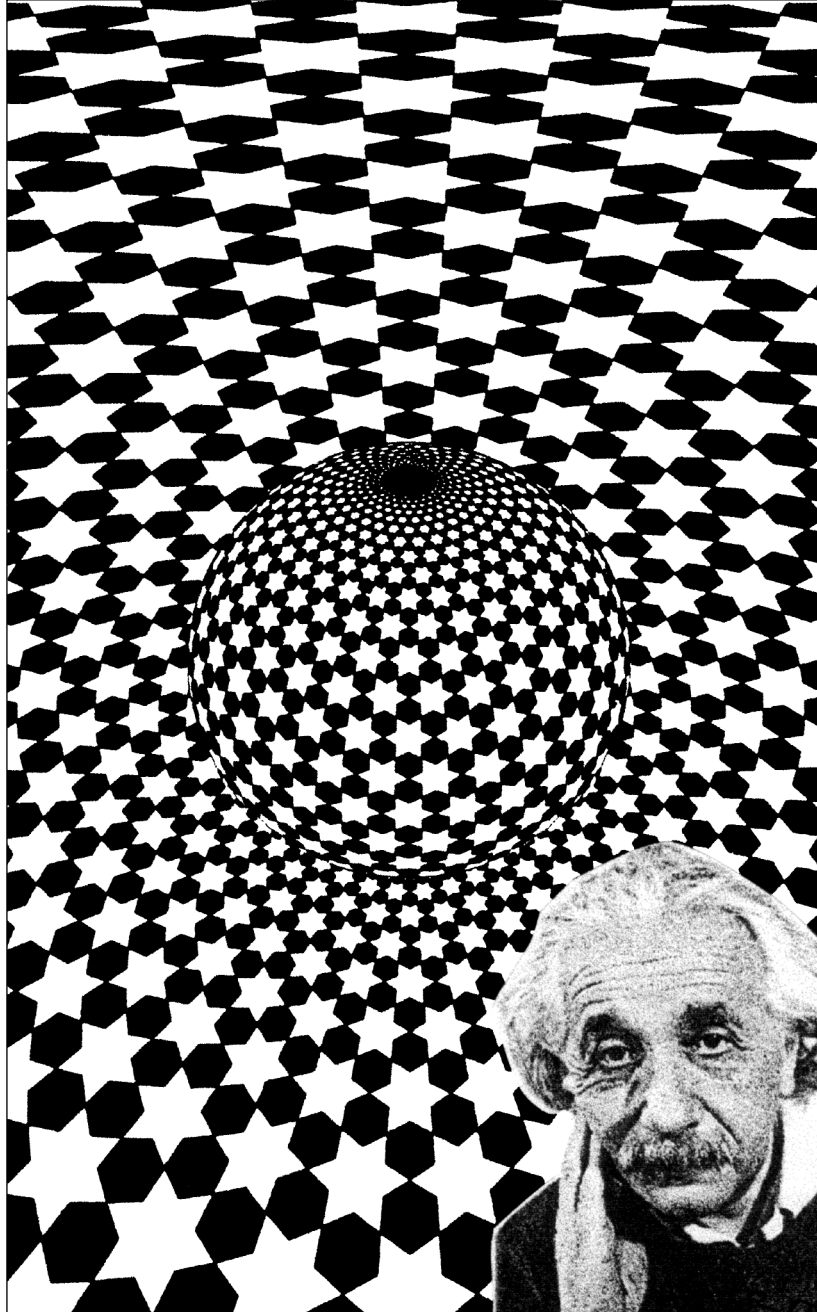
Chapter Two

Relativity and All That Stuff

At the beginning of the last century physics was in the process of constructing two great pillars of knowledge. There was the pillar of *Relativity* and of all things large, and the pillar of *Quantum Mechanics* and the science of the very small. The central *Holy Grail* of the 20th century was to unify the two pillars of knowledge with the grand unification theory, a *TOE*, a *Theory of Everything*, but no matter how hard people tried, no matter how intelligent they were, they couldn't marry the two ideas together. One of them had to be wrong. But there was no absolute black and white definitive answer and as relativity explained the atomic bomb very neatly and appeared to work on the whole pretty well, it was adopted as the prevalent theory of the universe. Other cosmologists polished and added to the detail of this remarkable edifice of human achievement now called the *Standard Model*, failing to notice, somewhat conveniently, that it had failed to match up with the other great pillar at all. What was even more amazing was their flat refusal to look at any other idea what so ever that contradicted their beloved edifice.

The 19th century view of the universe had been dominated in the latter part by the *ether theory*, but as relativity took the stage the ether was thrown out, as the baby so often is with the bathwater! Almost overnight a very predictable Newtonian mechanical universe had evolved into an Einsteinian relativistic universe and everybody was happy again. As with most things, initially Einstein was considered a heretic, but when the experimental data was matched with his theoretical predictions as verified by other scientists the accuracy was stunning. The 1919 eclipse bending of light experiment was accurate to within 1% of the predicted value of Einstein's equations. This hailed him as a genius and in 1921 he received the Nobel Prize for Physics. Interestingly if he had been within 10% correct that would have been amazing, but to be

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Space tells matter how to move, matter tells space how to bend

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within 1% correct of the actual value was just too good to be true; with such a stunning result, he was set up for life. But a revolution was occurring and the quantum mechanic atom smasher's Ernst Rutherford and Niels Bohr, et al were busy looking into the very small and finding that there was weird stuff there.

It now seems that the weird stuff was correct. Niels Bohr said, for example, 'anybody who is not frightened by quantum mechanics does not understand it', and this is true. All our values of solidity disappear. There is no concrete, there is no foundation, there is only a maybe, a quantum fluctuation. Very disconcerting for a lot of people who want to believe in a comfortable universe. But there is now a new point of view that I have come to accept and it now appears that *quantum gravitation* using extended Newtonian mechanics can not only predict and explain all that relativity can, but it can also neatly combine with quantum mechanics as well. Quantum gravitation can go further than relativity in that it can also explain the various anomalous phenomena that we are becoming more aware of. We have already known about many of these things, but before, because there was no explanation or more importantly mathematic framework, the evidence and observations were swept under the carpet.

How do we understand something as big as the universe? Well again we turn to Albert Einstein for a great one-liner. He stated - *the most incomprehensible thing about the universe is the fact that it is comprehensible*. This meant that he was amazed that his own simple laws and mathematical equations could hold sway over the whole universe. Quite a statement really when one looks at the vast panorama of the heavens above us. But again if we break it down into bite-size chunks we can start to understand the structure of everything.

Space tells matter how to move, matter tells space how to bend

Let's start with atomic structure: the humble atom 75% of the whole universe is composed of just one atomic element and that is hydrogen. So straightaway three-quarters of everything that is physical is made up of just one type of atom. If we understand the structure of this one type of atom we can therefore understand the structure of three-quarters of the universe.

The hydrogen atom is extremely straightforward and simple. It is composed of just two components - *a positively charged proton*, which has a relatively large mass, usually assigned the value of one unit and a

positive charge also of one unit. The smaller orbiting *negatively charged electron*, which is one eighteen hundred and fiftieth of that unit in mass, has one unit of negative charge and orbits at the speed of light, which is 300,000 kilometres per second, or 300,000,000 metres per second, 186,000 miles per second in old units.

But the idea of an electron *orbiting* in a classical sense is erroneous. It rather exists more as a fuzzy cloud and somewhere within that cloud there is slightly more charge, which is always on the move. The electron appears then disappears in the cloud and reappears in another position. So I am trying to lead you away from this idea that it is like a planet circling in a steady predictable orbit. It is very convenient to look at it as a planet orbiting a star, but in fact, although it does that, it is its own quantum beast at that scale.

If we imagine a circle somewhere the size of a football pitch and we hold up a grain of rice in the center of the pitch, then that is the proton. If we then have somebody running around the outside of the football pitch holding a pin, then the pinhead is the electronic charge. As you can see immediately, most of the atom is space. It is literally hollow-graphic, a single electron orbiting at the speed of light, no more solid if we freeze frame it than the television picture we watch. Yet three quarters of our universe is made up of this one type of atom.

Why then does it appear solid? Well, the charge circulates at the speed of light and therefore creates a spherical shell, which is negatively charged. When another hydrogen atom approaches it will link with the first hydrogen atom to form a hydrogen molecule. This is because the laws of observation show that one electronic charge gets lonely and electronic charges tend to like to operate in spin pairs. The only way a hydrogen atom can have a pair of electrons is to share its orbit with another hydrogen atom. So the hydrogen molecule quite happily exists as H₂ with two protons and two orbiting electrons sharing the same single orbit.

The host of the stars that you see in the sky are composed mostly of hydrogen which, through a process of gravitation compressing the hydrogen gas, causes the process of thermo-nuclear fusion to occur at the centre of the star. Tremendous heat is generated, just like rubbing hands or pressing on an object, as compression causes heat. Heat causes the centre of the star to light up, providing it has sufficient mass, and then the process of nuclear fusion occurs. In this process 4 hydrogen atoms are compressed and forced together in a process of atomic fusion

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to produce one helium atom plus two electrons plus surplus photons, x-rays and other energies.

The centre of each star is therefore an expanding cloud of highly compressed helium and as the hydrogen fuel is used up so the helium central core expands. The energy radiated into space in the form of electro-magnetic radiation is what we experience as sunlight and without this energy there would be no life on our planet as it is the main energy source for life to exist. Amazingly 24%, almost one quarter of the universe is made up of helium. How do we know this? Well, we have analysed the light from stars and measured the amount of helium and hydrogen through spectroscopy.

A massive 99% of the whole universe is, therefore, made up of just two types of atom. Helium is inert, it has two protons, two neutrons and two electrons, all balanced perfectly in charge and structure. The atom is therefore stable. When the fuel in a star is exhausted the structure becomes unstable. The forces radiating outward in the form of electro-magnetic radiation are finely balanced with the forces inwards, mainly gravitation. As this becomes more and more unstable the star tends to expand and then suddenly implode upon itself. This process of implosion, coupled with explosion, produces the higher elements. It is very similar to holding a snowball in each hand and, compressing the two together at a rapid speed, bits fly off yet we are left with a more compact mass, which is slightly larger. So we are left with higher elements, with ever more sub-atomic particles composing much heavier elements. These are then arranged into family groups according to the number of protons in their nucleus and electrons in their outer shell.

We know, for example, that iron is a very common element in meteorites and therefore this would suggest that a common product of imploding stars is meteoric iron, which is distributed throughout the many galaxies of the universe by the explosive forces in action.

We think that the early universe contained many primal stars. These were very huge, white-hot giant stars, which because of their enormous size, burnt up their hydrogen fuel very rapidly and exploded, producing the many more complex elements that we see on Earth today. So we see a natural process of evolution in the universe. It starts off very simply with just hydrogen and helium, but rapidly becomes more and more complex as the higher elements are built and distributed throughout space. Drifting clouds of gas then become the birthplace of many other stars: stellar nurseries as we call them.

Stars are graded according to their size, 1 to 10 in magnitude. Our star, the sun, is about 3 on the scale. It is only an average size star and is yellow-hot. As the magnitude increases so the stars become white-hot and blue-white. Colour is an indication of the temperatures in action at the heart of the stars. When stars collapse, if they are of sufficient mass, they form a compact star of dense material. This is called a dwarf star and a dwarf star is a very compact mass, several tons would only be about 1 cubic centimetre. *Red dwarfs* are hot and *white dwarfs* are even hotter, but all eventually cool down to become *black dwarfs*. Slightly higher density stars are *neutron stars*, which are extremely compact. Present cosmologists believe, and there is some evidence to show, that extremely large stars collapse to form a black hole.

To give an idea of the density of a *black hole*, if we took the planet Earth and compacted it to the size of a one-penny coin, then that would be a black hole in terms of its mass and gravitation. All the density of the material would be in that one little, tiny piece. Thus with sufficient mass it would bend space to such a degree that light could not escape from its own surface and it may in extreme cases actually rip a hole in the very fabric of space itself. But again this is only mathematical formula and conjecture. We have yet to observe a black hole directly.

Scientists believe that there may be a black hole at the centre of our galaxy, the *Milky Way*, but there are other explanations for why our galaxy whirls at such a great rate. It is a basic law of the universe that all things spin and as we have seen from Chapter 1, the spin is inherent in the actual structure of the universe at the prime level. This spin is expressed as momentum and bulk angular momentum increases with the size of the object. Large planets will then rapidly revolve much faster than small planets. In the case of Neptune, it rotates once every ten hours. Earth, being smaller, only rotates once every 23 hours 56 minutes. Planets therefore can be seen as debris left over from the initial dust cloud conditions that form stars. The dust having been created by the imploding massive yet short-lived blue white stars of the early universe.

The secondary phase stars tend to come into existence with associated debris around the outside much later in the scheme of things. The debris coalesces into stable orbits and planets according to the density of the material. Rocky planets tend to be on the inside and the lighter, gaseous planets on the outside - much the same as a fairground ride: if you are on the outer horse of the carousel you are going much

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faster than on the inner horse of the carousel. This tends to sort things out through the action of centrifugal force.

We estimate that in our galaxy there are approximately 120 billion stars. Our galaxy is one of twelve galaxies rotating around the *Andromeda Galaxy*, which is approximately twice the mass of our own *Milky Way*. Our own part of the universe also contains a cluster of galaxies, which we call a *Super Galaxy Cluster*. Correspondingly, there are voids in space where there is very little matter and we call these *Super Voids*. As you can gather, the whole of the process of the universe revolves around one thing, and that is density of matter. *Matter is thick space - space is thin matter*, so that density is a good indicator of the distribution of energy in the universe. Matter can be regarded as frozen energy, energy that has been stabilised. As we have seen, there is enough energy in one cupful of water to destroy a whole county in an atomic explosion should we decide to liberate the atomic energy that is frozen or imprisoned as matter.

Density increases, as matter becomes more solid. We happen to live on a planet, which has an average density of around 5.46 grams per cubic centimetre. But how do we know that?

In 1798, Henry Cavendish estimated the density of the earth by using a torsion balance. The "Cavendish" dataset contains his 29 measurements of the density of the earth, presented as a multiple of the density of water. The average measurement is 5.42, suggesting that the density of the earth is 5.42 times the density of water. However, a histogram or boxplot shows that the measurements are slightly skewed right with a low outlier. These slight departures from normality indicate that the median measurement, 5.46, is a better estimator of the earth's density than the mean.

For example, we measure the density of water at 20^o Celsius as being 1 - that is 1 gram per cubic centimetre (courtesy of Napoleon Bonaparte). This simply means that 1 unit of density is the equivalent to the value for water, which is the most common found substance covering the surface of the Earth. This comes from the metric measurement, which says that 1 cubic centimetre of water equals 1 gram, therefore 1 litre of water equals 1 kilogram. Density of rock on the surface, being made of silica, is approximately 2.3; iron is about 7.8 times heavier than water; lead is 11.2 times more dense than water; mercury 13.6 times more dense than water and gold 19.5 times more dense than water. Therefore gold will sink in mercury, whereas lead will float. So density is another

way of sorting out materials and we think that the central core of our planet is molten iron, which is the densest part of our planet.

Now we come to the concept of free energy, as you can observe, all things spin and therefore if we could tap into this spin, or gravitational energy, then we would have a free supply of pollution-free energy for the future. It is merely a question of being able to plug into this commonly observed phenomenon. There are a number of machines that claim to have been able to do this using various electronic means or mechanical means and this will be discussed in another chapter later on in the book. But certainly free energy does exist, because *the earth rotates upon its own axis without anybody pushing it and nobody is paying a bill*, so the whole concept of 'you must pay for your energy' has to be reviewed in the light of this. As I have said before, the only crisis on this planet is ignorance. At the moment we have to pay for every drop of energy that we use through fossil fuels, coal, oil or gas, because of the effort people have to expend to extract them from the earth. As I edit this we are indeed fighting a war at this very minute in the Gulf region over the issue of oil, among other major concerns. These sources are stored sources and non-renewable in the immediate future. Therefore we have to look towards more alternative energy sources that are renewable.

At the moment tidal power, wind power, and suchlike have been considered. Solar power is obviously a great choice if you live in a desert. Unfortunately, most of the population of this planet live in somewhat cloudy temperate conditions, crammed into the more habitable zones of the earth's surface, and we have to remember that 7 billion people are trying to live on approximately 20% of the actual global surface. Of that 20% only about 3% is of, what I would term, prime habitable land. At one point in the 1960s it was said that the whole population of the earth, then about 2.5 billion, could stand shoulder to shoulder on the Isle of Wight. Now it would have to be somewhere like Madagascar for the entire human race to fit into a small space.

Therefore, as complexity rises, so conscious, functioning beings increase in number. Really we see a trade-off between the natural decline of the simpler life forms and resources of the world for an increase in consciousness. This observation will be discussed more fully later on in another chapter.

Now we come to the question of *time*. Time is what makes our 3-D reality work. Einstein never actually said what time was. He described how time worked, but not what it was. Really this concept of time is

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what gave relativity its name, because one of the curious factors of time is that time is like a lump of elastic: it can actually stretch, it can slow down and it can speed up. *Gravity will slow time down* and also *velocity will slow time down*.

Einstein's famous predictions were put to the test with two atomic clocks, one flown around the world for seven days at altitude, the another one kept in Washington. When the clocks were compared a week later it was seen that the clock flying around the world was slightly faster than the clock left in Washington. This demonstrated that Einstein was correct, that time does in fact alter with gravity. The *twins' paradox* was also an illustration. If two twins were born at roughly the same time on Earth and one were to go into space in a very fast rocket ship at, say, 96% light speed (which is thought to be obtainable for we could never get to 100% because our mass would increase so much that we could never quite make it, so we are constricted by physical mass), time would slow down for the twin in the rocket ship and the twin on Earth would appear to age faster than the twin in the rocket ship. The exciting thing at the moment is that this natural barrier of the *speed of light*, which translates into *time* can be broken. Several new experiments have shown that this may be possible.

Time stops events bumping into each other and it seems to be designed specifically for that purpose. In higher dimensions it is thought that there is no time, time is a product of our 3-D physical reality. The reason for this is that photons carry information/energy and require time to traverse space. This means that anything that we see is always in the past. If I observe a flower that is several feet away from my eyes it will take but a split-second for the information regarding the colour and shape of the plant to enter my eye so that I can register the data. If I observe a star 4 light years away, as the nearest star (after our own Sun) Proxima Centauri is 4 light years away, the light coming from that star will take 4 years to reach my eyes. I am therefore seeing into the past; we are really looking into a time machine when we observe the heavens and the more distant the object the further back in time it is as we observe it.

The light from our own sun takes approximately 8.5 minutes to reach Earth so if the sun were to explode then it would be 8.5 minutes later before we realised on Earth. So as we look out into space we are seeing back into time and the further we see, the earlier we see into time. At the moment we believe we have seen the edge of our observable

universe and that we are observing very early quasars, which are giant galaxies compressing, contracting and imploding on themselves, giving birth to the structure of the early universe. We can observe them due to the vast radiant amounts of radio energy they produce. It was thought that the whole process of the universe was slowing down to allow complexity to increase and that this process might eventually stop and then reverse into a *Big Crunch*. The scientists were mainly concerned as to how much matter there was in the universe and how this would effect the eventual outcome. Whether continued expansion, stasis or contraction would be our eventual fate, but nobody was to predict what would be discovered next.

By accident, in 1965, two Bell Labs technicians Penzias and Wilson discovered the *Cosmic Background Radiation* while testing a microwave receiver for a satellite communications experiment. No matter where they pointed their antenna, which was shaped like the section of a sphere (a 'horn'), they received a faint signal at 7.35cm wavelength. The fact that the direction of the antenna did not matter indicated that the source of the radiation was ubiquitous. Meanwhile, as the technicians struggled to find the source of the radiation, a group at Princeton University had predicted a cosmic background radiation, but had not yet physically searched for it. The signature temperature of the fluke microwave signal matched the temperature predicted by the Princeton group, about 3 degrees Kelvin.

Through the 1960's and 1970's more accurate studies were done, at varying wavelengths (the Penzias Wilson measurement was of only one wavelength) to confirm that the 3K source was indeed a 'black body' emitter whose source was the Big Bang. The Cosmic Background Explorer satellite confirms a black-body source of 2.7 K.

The radiation in the cosmic background is from a decoupling event, some 300,000 years after the Big Bang, when space became transparent to matter. The photons produced by the previous set of nuclear interactions are in surplus when space becomes cool enough for protons and other sub-atomic particles to exist. These photons form the background radiation, distorted by our frame of reference here in the present, so that what once was a 3000 K characteristic temperature is measured by us to be 3 K.

Recent observations show that the universe is actually speeding up! This goes against every law formulated by the classic cosmologists over the

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last 40 years. The idea was quite simply that the large mass of the universe would act as a counter-weight to the expansion of the universe from the Big Bang and that, like a lump of elastic reaching its maximum limit, it would slow down. Then it would do one of three things - it would either continue to expand at an ever slower rate, or it would stop, or it would stop and then collapse in on itself. The whole process was thought to be dependent upon the amount of matter in the universe. There is quite simply not enough matter to account for what we observe to date. The speed of rotation of objects such as our own galaxy and other galaxies that we observe are much faster than the amount of matter that we can observe. This has given rise to the idea that there is a hidden mass to these galaxies and various theories have been put forward based on such things as *cold dark matter*.

Another theory which I would put forward is that the matter is present, but in a higher dimension. The forces are pan-dimensional and therefore can affect the rotation of the physical object, but the actual hidden mass of energy is in a higher dimension. This would account for the anomalous missing 9/10ths of the universe. It is now thought that inter-stellar space does contain quite a portion of hydrogen atoms, which would account for a considerable amount of more mass, but it is still no way near the figure required to fit the observations. Recent anomalous observations have shown that space is expanding far faster than we thought and there is no mechanism in the Big Bang theory to allow for continuous expansion, but there is in Ron Pearson's Theory!

Expansion may be the Achilles heel of the Big Bang theory. Why is it that the background radiation, the density of hydrogen, helium and lithium and distribution of those elements tends to confirm the Big Bang theory? Yet, other information that we are now receiving does not. We have found stars and stellar objects that are far older in estimation than the space they are contained in. You have, for instance, a 20-billion-year-old object apparently in 8-billion-year-old space.

Now, a billion for those people who are not familiar with large numbers, is a thousand million - 1 000 000 000, which is rather a lot. Scientists tend to bounce around big numbers like this with gay abandon but, for example, if you were to sit down and try to count one million it would take two weeks to count it properly. We as scientists use numbers and powers of ten of numbers to grasp some idea of the scales we are talking about. But it is difficult even for us!

The present estimate is that our universe is approximately 15 billion

years old and that our own solar system is approximately 4.5-billion years old, or one-third of the age of the universe. The early universe would have been too hot for stable solar systems and life to evolve naturally. Therefore, according to the anthropic principle, we are here because the conditions are right for us to be here to be able to say this and to read this book. But again, it is only conjecture and a convenient dismissal, much like the great fall back that it is just coincidence. Estimates vary from 8 billion years from the Big Bang to the present, to 20 billion, but we settle traditionally on an average 15 billion years. Again, these are only estimates, we cannot prove it; scientists with mathematicians and cosmologists will tell you very definitely, but when we observe *Chaos Theory* and *Number Theory* we realise that there is no such thing as a fact, because quite simply, you get the measurement you want.

For instance if I measure a coastline then it can be as long as I want it to be. If I measure around every bay I will get one figure; if I measure around every rock I will get another figure; if I measure around every grain of sand I will get an even bigger figure. So really the coastline can be as big as we want. This must be remembered when we are using figures to state distances and times. They are only estimates, based on observation and instrumentation, but only estimates. I am now convinced that there is no such thing as a fact!

We, for example, have not measured the speed of light outside the gravitational field of our own solar system. It may be that gravity slows light down and that as we measure light on the surface of our planet the gravitational field of our planet alters the speed we observe light to be. Once outside the constraints of gravity in our solar system light may well speed up. There may be several speeds of light. Again, the speed of light is said to be the universal rule by which we measure everything, but it could be just like time, an illusion, a lump of elastic. Consciousness also affects our perception of time. We can, for example, have a mad passionate love affair and run off for the weekend to Paris, which would seem like an eternity, because of the intensity of the experience. Or we could work 20 years in a very mundane job and suddenly realise that 20 years have passed in the blink of an eye. The perception of time is affected by consciousness and it acts in much the same way as a movie projector does by using frames of reference.

Consciousness is therefore like a lump of elastic too, it alters our perception of time. If we crash a car, time appears to slow down, but

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really what has happened is that our consciousness is taking note of the information much faster and just as we make a slow-motion movie by taking more frames per second and then playing them back at normal speed, so as we crash the car we take more frames per second and therefore, just like the slow-motion movie, time appears to slow down. I have observed this personally several times in my life and there is a deceleration of events, which cause everything apparently to slow down. Also, quite noticeably, sound is stopped; everything becomes silent. So we only have a slow motion, silent movie to recall the event.

Once as a small child I propelled myself from the top of a very high slide and I shot over the edge feet first. I was able to react so quickly, that I was incredibly able to twist in mid-air and grab the side of the slide, thus preventing myself falling about 20 feet onto a very hard concrete surface. I then climbed back up onto the slide and slid down normally. It was only when I got to the bottom that I started to shake with shock. My body had gone into overdrive at a very rapid rate of knots. This is quite normal and is called the 'fight or flight' response. When we get frightened or excited our adrenaline rushes in a massive surge around the body and causes all our cells to function far faster than normal. We can only sustain this response for a limited amount of time and then we have the withdrawal symptoms, which cause weakness and shaking to occur in our muscles. But it is a safety mechanism and if it has done the job properly we survive.

Recent experiments with remote viewing, psychic phenomena and suchlike that can be measured, suggest that thought is capable of travelling much faster than light: maybe up to 10 times as fast, or even instantaneously. With Ron Pearson's quantum gravitation theory and the fine filamentous sub-structure of the Intelligent Universe acting as a giant grid, we could see that information such as thought would be able to travel through the filaments from one part of the grid to another. Seeing that everything is connected to and made from the grid, all things are therefore interconnected. Time becomes a bubble not a line, past present and future one.

Recent experiments with photons have shown that when a photon is split and separated by a distance of some 5 miles, then as the one photon turns right the other photon executes the same manoeuvre despite there being a difference in spatial distance between them. They are acting as one photon. There is an information link between the two. Also, tunnelling electrons have been observed to travel through an object

faster than the speed of light. The classical cosmologists tried to get round the argument that this was breaking the speed of light by saying that there is no information contained in the photons and tunnelling electrons. The scientists performing the experiment managed to pump a Beethoven symphony down one end to another and then said, 'how's that for information!' Now that's my kind of scientist.

Again, uncomfortable discoveries like this are rejected on any grounds whatsoever to protect the status quo. As several eminent scientists have said, including Richard P Feynman, 'If the experiment shows that the theory is wrong, then throw the theory out. Do not try to make the experiment fit the theory.' This frightening attitude can be accounted for by the fact that many scientists have spent their whole lives defending or supporting one piece of particular work that they cherish. It is a very hard thing to do, to find that it is completely wrong and therefore you have wasted a great part of your life. People therefore irrationally fight tooth and nail to defend outmoded concepts. Dogma prevails and the light of reason is dimmed.

This is a human fault. We have had it throughout history in religion, in history and in science. Paradoxically, science should be seeking the truth and the people seeking the truth should be flexible. Richard Feynman stated that he knew we could not know everything and therefore we should not expect to get everything right. We know the best we know now, because of our instruments and we will assume that people in the future, with better instruments and better ideas, will know much more than us. What is important is that we should persevere. We know we have not got all the answers, but we should not be discouraged. We should try to find the truth, no matter how difficult or hard it is. It is one of the main reasons scientists pursue knowledge in the way that they do.

Chapter Three

Hyper-Dimensional Geometry

The answer to the very big lies in understanding the very small; the answer is, therefore, within. Now with the advent of super-computers we are able to model and map very complex surfaces and to show other people what they look like. This was not possible for people 100 years ago and before. Gaston Julia the famous French mathematician could see the mathematical equations of chaos and visualise them in his own head, but he was unable to externalise them in order to make them meaningful to other people. Eventually he did so in a series of cartoons, but this lacked the impact of the actual visual images of the *Julia sets* named after him.

Enter a Polish refugee living in France, Benoit Mandelbrot. Mandelbrot was born in Poland in 1924 into a family with a very academic tradition. His father, however, made his living buying and selling clothes while his mother was a doctor. As a young boy, Mandelbrot was introduced to mathematics by his two uncles.

In 1945 Mandelbrot's uncle had introduced him to Julia's important 1918 paper, claiming that it was a masterpiece and a potential source of interesting problems, but Mandelbrot did not like it. Indeed he reacted rather badly against suggestions posed by his Uncle Sice, he felt that his whole attitude to mathematics was so different from that of his uncle. Instead Mandelbrot chose his own very different course which, however, brought him back to Julia's paper in the 1970's after a path through many different sciences, which some characterise as highly individualistic or nomadic. In fact the decision by Mandelbrot to make contributions to many different branches of science was a very deliberate one taken at a young age. It is remarkable how he was able to fulfil this ambition with such remarkable success in so many areas.

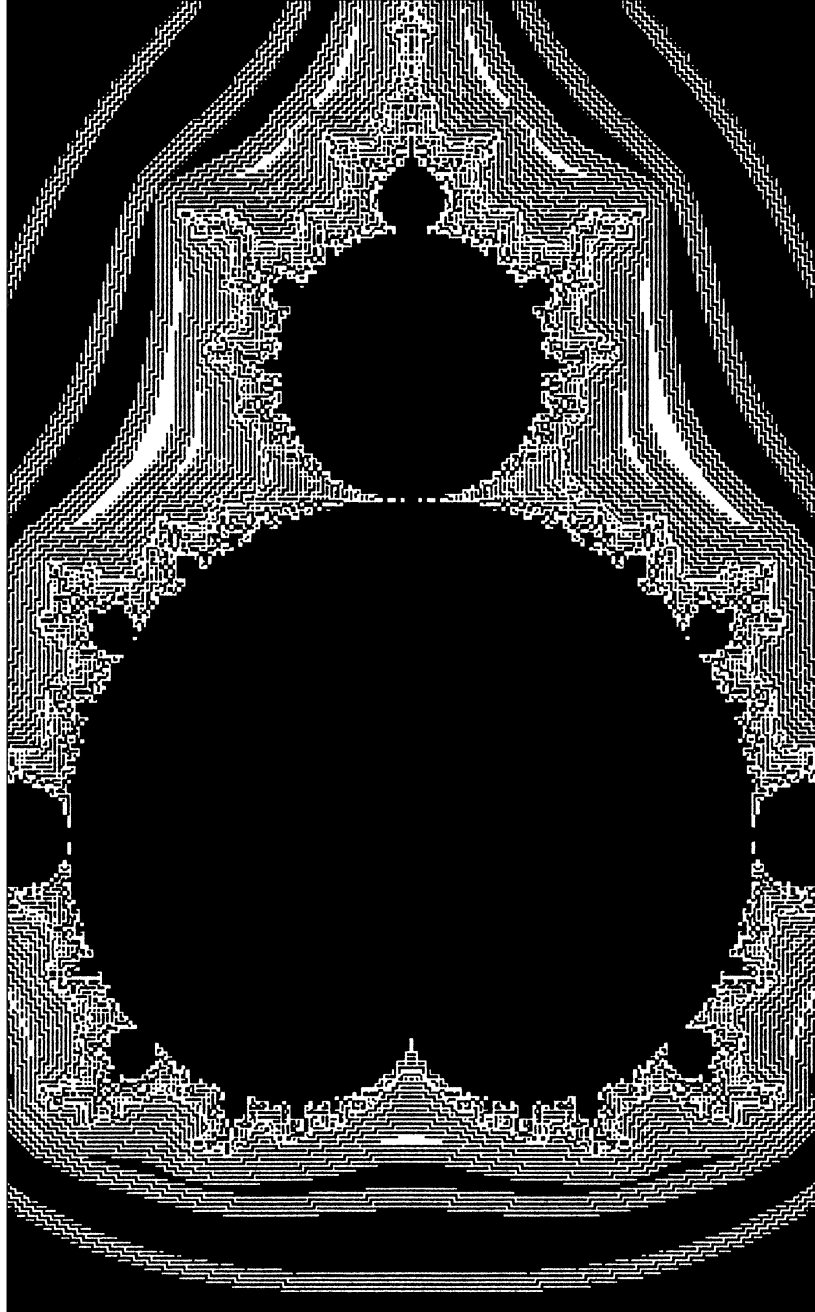
With the aid of computer graphics, Mandelbrot who then worked at IBM's Watson Research Center, was able to show how Julia's work is a source of some of the most beautiful fractals known today. To do this he had to develop not only new mathematical ideas, but also he had to develop some of the first computer programs to print graphics.

His work was first elaborated in his book *Les objets fractals, form, hasard et dimension* (1975) and then more fully in *The fractal geometry of nature* in 1982. But it wasn't until 1985 that Benoit Mandelbrot announced to the world on the front cover of Scientific American the discovery of the ultimate fractal set that contains all others, now named after him - *the Mandelbrot set*. The study of complex numbers involving real and imaginary number components really started to open the way for a paradigm shift. Complexity was revealed to be underpinned by chaos, but just the right amount of chaos was needed to give rise to spontaneous order. An awareness of the hitherto obscured higher dimensional world that creates our reality was suddenly on the high street.

The Mandelbrot set - a universal image of dynamic complexity

Is 3-D all there is? The key to understanding future science is to understand the multi-dimensional nature of the universe. With the advent of the mathematics of Ron Pearson's theory we can understand that there can be several, if not an infinite, number of dimensions and that these are merely separated by frequency of vibration. These can therefore exist side by side, very much as TV stations. People living in the invisible universe with *etheric* bodies will experience their reality exactly the same as we experience our physical reality in the 3-dimensional plane.

In the end we are only processing information and, with the advent of computer games, simulation and virtual reality, experiences obtained through *virtual information* are almost as good as the experiences obtained through *real information*. The processors, our minds and brains, merely process information and the data inputs are our sensors. 85% of our information enters through our eyes, from photons that stimulate the retina. 10% of information comes from our hearing and this is why pupils often drift off to sleep when the teacher drones on for too long - it is much better to be more visual. The other 5% are reserved for physical touch, taste and smell, but despite being a relatively small proportion of the total input of signals to the brain, the experience of,



The Mandelbrot set - a universal image of dynamic complexity

for example, a particular smell or scent can be extremely memorable and stimulate a lasting experience.

I often use the analogy of a woman's perfume, which is extremely evocative and memorable. Even 20 or 30 years later a particular perfume will trigger an emotional response and memory. This is quite a powerful memory mechanism but, again, our own senses are extremely limited. The bandwidth of frequency and wavelength that we can observe in visible light is extremely small. Insects use a far higher range of frequencies and wavelengths. They can see on average at least four bandwidths in ultra-violet. Many animals use infra-red, such as snakes, which will target in on infra-red *hot* subjects, especially when they move, in order to inject their venom. Bats, using ultra-sonic hearing, to detect the small wing beats of moths. Thus a whole, invisible universe was only opened up with the advent of the discovery of radio and television waves. Interestingly some of the early pioneers of these media were of the opinion that they had discovered the answer to humanities spiritual conundrum and that within these wave constructs would be found the realm of the afterlife.

Most notable of these scientific frontiersmen were the first sender of a radio message Sir Oliver Lodge, an esteemed physicist Sir William Crookes and the inventor of television John Logie Baird. For voicing their opinions in open contradiction to the organised authorities of church and state their work was censored and their lives put on hold indefinitely. It is only now that they are receiving the true recognition that they deserve for their advances in Physics. They reported many of their observations, but unfortunately, because of the lack of mathematical equations to substantiate their observations, they were much ridiculed by the popular media.

As we now have the mathematics for the survival of physical mortality and associated phenomena, this should no longer be a barrier. We now know that it is a multi-dimensional universe and that this has been a close guarded *secret* for many, many years by secret occult groups.

The development of the atomic bomb relies, for example, on the knowledge of higher dimensional geometry. For the final explosion to occur a geometric process is necessary, which relies on very fine tuning to do with the position on the Earth's surface, the position of the sun and the position of the moon finally to unlock the atomic power through fission. We can therefore see that scientists have been aware of

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this for at least 50 years. It is perhaps one of the best-kept secrets in the scientific community and the world?

In my early scientific career, I went through a phase of believing, as do most people, that everything we knew was freely on display and that if one read the literature in the public domain one would know all the answers and all the possible research. But I was very wrong. I discovered in 1989, to my own incredulity, that I had had a completely naive perception of the workings of the world.

There are two camps of science; *white science*, which is openly on view, with squeaky-clean peer reviewed public domain literature and then there is the deliberately occulted *black science*. This is the science of the X-Files and it was only with the advent of the X-Files television programme that the public became more aware of this dark side of science. Quite simply, if you were to produce a wonderful flying machine that was far more advanced than anybody else's then you would not patent it because the people at the Patent Office would immediately siphon off your ideas to the military. You would not put it directly into the public domain, because you would immediately lose your economic or strategic advantage, you would deliberately keep it a secret!

This then is the basis of the *black world*. Black Science exists and is very real and I have made an intensive study of many aspects of Black Science in order to uncover information relevant to my quest for understanding how the universe works. Now, with the Internet, information can be exchanged much more freely and access to this *Forbidden Science* can be readily obtained by any individual with the knowledge and perception to know what they are looking for. Therefore, the powers that be now rely on ignorance to enshroud their secrecy. The public have been officially *dumbed-down* through state imposed educational curricula exploiting the mass heard instinct to restrict individual flair and thinking. Interestingly I have noted that most entrepreneurs tend to come from a public (private - US equivalent) school background where enterprise, excellence and individuality have been encouraged to flourish.

The control of information and disinformation is a very powerful tool in manipulating the electorate. We live in a society obsessed with spin and the Government spin doctors manipulate the popular crowd just as they have done from time immemorial, until they are persuaded to make the correct decision, which was the one the politicians wanted

all along. This has been policy from the earliest of times and is part of what I term the *Roman control mentality: bread and circuses* to keep the crowd happy; give them what they want, distract them by any means possible and get them to vote for what you want to do!

It is very much this case with hyper-dimensional geometry, it was considered an abstract esoteric subject of little practical worth to the sensibilities of the practical *Roman* business mind set. It was back of the envelope stuff, it didn't have any real monetary meaning and therefore was not worth learning. Mathematical lessons at school did not include geometry of this nature. Geometry itself was considered to be relatively obscure and of limited value. We therefore find a regime of ignorance whereby the average person is put off knowing about these things. Yet to our ancient forefathers it was considered to encompass everything, the philosophy of a higher learning and to be of infinite value.

Mathematics tends sadly to be a subject that most people dislike and almost regard as a punishment, but it is not really their fault. Mathematics can be divided into three sections. First there is *secular mathematics*, which is the mathematics of money and how things work in real life, quantities and volumes. Then there is *symbolic mathematics*, which becomes more complex in the form of algebra and solving many complex problems through using symbols and letters. And finally, there is *sacred mathematics*, which is perhaps the highest form of mathematics and is to do with how the universe works.

Sacred geometry part of that latter component, for a long time was held in obscurity, known only to a few occult groups and religious organisations that knew its true value and practised its tenets. Chief among these in modern terms are the Knights Templar, whose obsession with the *Golden mean ratio* and the *secrets of star shaped pentagram* were self-evident from their literature, diagrammatic representations, cryptic cartography and architecture. But we can trace their roots back further to the Pythagorean Mystery Schools and back beyond those to Egypt, from whence the Pythagorean acolytes gained most of their knowledge. The Egyptians themselves based much of their culture on Sumeria, and the Sumerian's could trace their past back to an antediluvian culture that existed before the Great Flood, when a much higher civilisation existed in isolated pockets on the Earth.

The understanding of geometry is, therefore, the understanding of the universe. The classical Greek mathematicians knew the value of this study and of all their sciences and arts, geometry was considered the

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highest. The Platonic School had the motto above its doorway 'Let none enter who do not understand geometry'. The Pythagoreans were obsessed with the pentagram and the dodecahedron as being the mathematical mechanism by which reincarnation was thought to occur. One particular student who divulged the inner secrets of the dodecahedron to the public was executed for this transgression such was the seriousness of this subject taken. Later on this was to transfer into the Knights Templar of which Leonardo da Vinci was a grand master! Among the other reputable grand masters were Sir Isaac Newton and Sir Robert Boyle, another great British scientist of his day. Is it any wonder, then, that these people had the knowledge they did? They had access to information that the average person would not have had access to and crucially the genius to make use it.

Now, come along with me on a journey most strange and venture into the mystic realms of *other* spatial dimensions! Geometry is the key and, as we will see with a few simple explanations, everybody can understand how this works. Nature is very elegant, very minimal, it creates the most out of the least and it is above all ruthlessly efficient. Therefore, in nature the shortest distance between two points is a straight line. This is the basis of geometric construction. The forces of attraction and repulsion will take the line of least resistance, which is usually the shortest. Therefore, if we begin to construct our number theory and figures we start with the numbers 1-10 in the linear sense and expand them into two spatial dimensions - 2D. We can see that the first shape we can make is the circle, for all things are resolved within the circle, it is both the beginning and the end, alpha and omega, the one, the whole and a hole! It encloses the maximum space for the minimum boundary, it is the first shape to manifest by spinning from the void, the point, the origin; all is joined by the circle. Through division the circle becomes two, joined circumference to centre. Thus is born the duality of our physical universe and the birth passage for all higher geometric shapes. The most sacred of shapes produced by this mathematical union is the ellipse or *vesica piscis* (Latin for fish's bladder). From within and through this sacred shape is born the first stable form in two dimensions, the triangle. With its three points and three sides of equal length in two dimensions it is the return to unity expressed in cosmic principles. It is the first stable, regular shape in our geometric tool kit. Any engineer knows that you use triangles to build bridges and structures, because it is the most efficient and strongest shape. Taking three straws of equal

length join them simply with a piece of sellotape at each corner and you will create a stable shape. Similarly, three pieces of metal hinged at their ends will form a rigid triangle. Expressed in iconic terms only God was depicted with a triangular halo, a visual manifestation of the principle of *trinity* much displayed throughout the Christian faith.

Now we extend this two-dimensional shape into a three-dimensional shape called a *tetrahedron*. The tetrahedron is the basis of modelling for everything in three dimensions. Taking the triangle, which we have formed with just three straws, we erect three more straws upon its base and join them to a single point at the top. We now have a triangular pyramid. It is called a tetrahedron because *tetra* - means 'four' in Greek and *-hedron* means 'faces'. So the object has four faces. If the object is made with triangles of card or similar material then we have a solid tetrahedron. If it is made with straws we have a skeletal tetrahedron, which has four corners or vertices, and is composed of six straws. If we then take two tetrahedra and interlock them into a star shape, we create the *star tetrahedron*, which is also known in two-dimensions as the *Star of David* as displayed on the flag of Israel. We see that if we put this on its side it becomes a cube, so a cube contains two tetrahedrons interlocking within it and is made by merely connecting the extra points with lines.

Now we come to understanding the fourth dimension. We follow the same principles in mathematics and simply join each corner or vertex to a fourth line. If we place our finger on the straw triangle we can see that just two lines or straws connect each corner. If we place our finger on a corner or vertex of the tetrahedron we see that each corner is connected with three lines. So to make a fourth-dimensional shape we simply add another point in the middle of the tetrahedron and then join four more lines or straws to the four internal corners of the tetrahedron. This now is then called the *hyper-tetrahedron* or *simplex*.

This is the first fourth-dimensional shape. My attention was drawn to it by the epic pictogram found in the wheat at Barbury Castle in 1991. This was a giant theosophical mandala composed of what appeared at first to be a triangle on the ground, but when analysed was found to be a two-dimensional depiction of a four dimensional tetrahedron! Thus my attention was drawn most dramatically for the first time to the subject of hyper-dimensional geometry. The crop glyph had performed its function perfectly, for it had raised my own personal conscious awareness to this wonderful and exciting new frontier of

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reality. And so crop circles started to play an integral part in my own personal development and as an anomalous phenomenon they attracted my increased curiosity to the point that I felt compelled to go into the fields each summer to experience them first hand. They were vital in unlocking my own spiritual evolution and development and in helping me to grasp the significance of hyper-dimensional geometry. Therefore the fourth dimension is to be found inside, and around every 3-D point of *matter* is a four-dimensional energy filled *space* creating it. As I came to understand much later, the four-dimensional space is the *real thing*. The three-dimensional point is, but an *illusion* created by positive and negative forces distributed in space. This is most important to grasp as we take the next *hyper* step in comprehension, *for our 3-D reality is but an illusion created by four-dimensional space*.

To expand this point within the tetrahedron so that we can actually live in an organised space, we have to create a *hyper-cube*. The hyper-cube has been the subject of fascination for such artists as Salvador Dali. He used the tesseract of the hyper-cube to depict famously a hyper-dimensional crucifixion of Christ. Dali was fascinated and obviously aware of multiple dimensions. In the hyper-cube, four lines join all 16 vertices or corners at each individual point. This is not as complex as it sounds! If we take a cube made of eight corners or vertices and twelve straws, we then simply join each corner to a larger cube, which encompasses the smaller cube. We now have a cube within a cube. This is called the hyper-cube and is one form of this shape.

The link between the two cubes can be so small that we would never notice the one cube inside the other cube. Therefore we would never notice the other dimension around us. We can see quite easily then that our own physical body could be the inside cube and that our ethric or electrical energy body could be the fourth dimensional outside cube or vice versa. We can then start to understand how it is possible for spirit to inhabit matter.

If we focus on a picture of the hyper-cube it will tend to start moving. This is a process whereby our consciousness and our sub-consciousness is registering the shape and trying to make sense of it. The natural function for this is to whirl. This power of using perception and consciousness has been used to great effect in Eastern cultures, notably in India, with the use of yantra, which are sacred diagrams used for meditation. The sacred shapes and diagrams tend to be triangles and the most famous one of all, the *Sri yantra*, is composed of a series of

interlocking triangles producing a very hypnotic shape. This shape represents the primal vibration or 'OM'. Recently it was found that with an electroscope and a microphone, when the word 'OM' was sounded, the vibratory pattern on the electroscope was exactly the same as the *Sri yantra* pictures of visualisation. One has to ask - how did these people know that this is the electronic equivalent of what they were sounding? They were supposed not to have electronics. Similarly in modern times, Hans Jenny a Swiss mathematician found that many complex shapes could be induced by frequencies of vibration acting on various droplets of media such as water and oil. Did the ancients have access to this knowledge? I would say most certainly!

We have looked at cubes but, really, everything in the universe is made of spheres. The physical universe is dominated by spherical form. The reason is mathematical and very, very simple. The sphere operates using the maximum volume for the minimum surface area. One can ask the question in two dimensions, why is a pizza round? A pizza is round in shape, because you get more topping on the surface for a minimum amount of crust. It is quite simply, economy of circumference for a given surface area.

The four-dimensional equivalent of the sphere is the *hypersphere* and the hypersphere in three dimensions as a shadow projection appears as a toroidal doughnut - this is the doughnut with the hole in - and this turns out to be a primal shape for how things are made in three dimensions. A wound toroidal doughnut becomes a hypersphere and really is a sphere within a sphere. A toroidal doughnut can be used to form a neutral macro-particle. Charles Cagle, in 1997, copyrighted a diagram showing a macro-particle in the shape of a toroidal doughnut.

With spin-rotated stabilisation the toroidal doughnut is the perfect shape for maintaining structure. By simply observing smoke rings we can see this in action. When one blows smoke rings using a cigar or a smoke box apparatus to produce smoke rings, the rings prove to be remarkably persistent and exhibit many unexpected properties. To try this take a cardboard or plastic box and cut a circular hole into one end. Remove the wall on the opposite end and attached a membrane of rubber, made from a toy balloon and secure with duct tape or similar. The box is then filled with smoke and when the rubber is tweaked and snapped a doughnut shape is expelled in the form of a smoke ring from the annulus or circular hole. These smoke rings are remarkably stable and can extinguish a candle flame at quite a considerable range. The

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rings will move across a room and maintain their shape. They are self-sustaining, able to bounce off of each other and behave as if they are solid objects.

With this observation we start to understand how atoms can be an illusion yet also appear to be a solid object by simply rotating electrical charges about a nucleus. Finally, when the smoke ring breaks down it dissipates and disappears into millions of small particles, but whilst the toroidal doughnut is functioning the object has stability. A larger electronic version of this has been turned into a *sonic* or *acoustic cannon*, whereby a three-foot diameter toroidal doughnut of sound was produced and projected across a football stadium with the capacity of knocking over a person. One can see that this could be used as quite an effective piece of technology in various non-lethal force situations.

It has also been found that the magnetic fields surrounding UFO craft appear from video analysis to be toroidal doughnut in shape. The nesting toroidal doughnuts of electro-magnetic energy would allow the craft to move effortlessly and silently through space and particularly within our atmosphere. There would be no sound or shock wave, as the air would be sucked in, creating a vacuum, which would allow the craft to slip into the space created. Also when craft were hovering in formation the toroidal doughnut structure of the magnetic fields would interlock with other craft to produce a stable formation capable of manoeuvre as one object. The use of toroidal doughnut magnetic fields is used with some success in *atomic fusion generators* and a magnetic bottle or magnetic toroid field is used to contain the extremely high temperatures in excess of 100,000°C such that all matter would melt instantaneously upon touching that heat. Therefore the only thing that can contain it is a virtual magnetic bottle created of toroidal doughnuts. Doughnuts are strangely the key to many things!

As with everything, nature has got there first. We only have to look at our own blood cells, especially the red ones, to see that the toroidal doughnut shape is favoured in transport systems. It is the perfect shape for containing an extremely large surface area and the doughnut-shaped blood cells, although they are filled in the middle, circulate around the body without too many snarl-ups endlessly throughout one's lifetime. Rubber rings mimic this. If you go to one of the big water parks such as Blizzard Beach in Disney World you will see the rubber rings going around the rapidly flowing watercourse with people merrily enjoying themselves. Again, it is the toroidal doughnut shape that is perfect for

going around an irregular course of fluid and bumping off the sides and not getting stuck by obstructions. So we learn, that from Disney to red blood cells, toroidal doughnuts are the way to go.

Now we come to nesting *polytopes*. Polytopic landscapes are higher dimensional landscapes created by high dimensional geometry and there are several very good interactive CD-ROM's for the PC, which can be found in the bibliography and are well worth looking at. With the advent of computers we can all view the complexity of these landscapes in our own homes. Before we had to rely on seeing the odd video or television programme, but now we can all grab hold of a CD-ROM and view these magical shows ourselves. Polytopic landscapes found particularly on the two computer CD programs Polytopia 1 and Polytopia 2, produce higher dimensional geometric shapes, which then give shadow projections into two dimensions. These beautiful shadow projections fall onto a two-dimensional area and display many complex and attractive forms. It suddenly struck me as I saw these for the first time, that this is exactly what crop circles are, *higher dimensional energy forms hitting a two-dimensional landscape and producing a flattened crop*. Many of the patterns of complexity in our crop fields each summer are therefore alluding to higher-dimensional mathematical shapes. Yet, all this is thanks to our infamous Doug and Dave, who claim to have invented most of them over a 10 year period from the mid eighties to the mid nineties. Not bad for two old age pensioners who allegedly came out of the pub most summer nights and decided to do hyper-dimensional geometry on a whim!

Life is a never ending continuous set of revelations and the next revelation came when I saw a video by Dan Winter, a rebel esoteric mathematician, describing among other things the golden mean *Phi-ratio* heart muscle contraction. He also went on to describe the *Earth energy grid* and the fact that nesting polytopes were responsible for how energy interlocks to produce energy fields. Up until then I hadn't realised how the platonic solids, which are the five regular platonic solids used in classical Greece, interlocked and interacted as energy fields. It just goes to show how bad my education was as a child, in that nobody had ever told me this. We had studied platonic solids once in passing, but we had not been told that they interlocked. It was probably a case at the time of, 'Well you don't need to know this and well we don't know it either, so let forget it!' But upon examining mathematical geometry

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books myself I then found that this was indeed the case and that classical mathematics books do in fact contain this information.

It just goes to show that there are no secrets, it is just that the information is so vast that one does not really bump into it unless somebody points you in the right direction. So in life it is the case of meeting the right person or teacher who will point you in the right direction. As Carl Sagan once said, 'The Earth is like a giant library containing billions of books, but the trick is to read the right books.'

If we take the five platonic solids, they are in order of number of faces; the *tetrahedron*, which we have already discussed, having four faces; the *cube*, with six regular faces; the *octahedron*, with eight regular faces; the *dodecahedron*, with twelve regular faces - *do* means 2 and *deca* means 10, so 2 plus 10 is 12 faces and the *icosahedron*, which has 20 regular faces. All of these shapes can be made quite easily with straws and/or just simple geometric nets created out of card and it is well worth playing with these shapes to get some idea of how they work. For it is only when you start using straws that you realise, as with the star-tetrahedron that it is really a cube on its side, so playing with straws is highly recommended! For the more advanced experimenter I chanced upon a marvellous geometric construction set called *Zometool*, this is easily found via the internet and well worth buying. A true understanding of higher mathematical shapes is acquired by construction of the many projects included in the boxed set booklet, this leads very rapidly to self experimentation and discovery with new shapes in sacred and hyper-dimensional math.

If we now look at nesting, we come across the concept of *dual* platonic solids. Two dual platonic solids are simply ones that fit neatly inside each other so that the point, corner or vertex of one solid immediately sits in the centre of the face of the next higher solid. These duals include the cube nested with the octahedron; but the highest one and the most important one, is the dodecahedron nested within the icosahedron. The 12-faced, pentagonal, 12 patch leather ball, as Plato and Pythagoras called it, fits exactly inside the icosahedron such that all the corners touch the faces of the higher geometric shape and vice versa. Nesting can continue alternately dodec/icosa/dodec/icosa indefinitely so that complex interlocking energy fields can project outwards from a given object.

What has this got to do with anything? Well, quite simply, this is how energy fields nest and interact to produce our reality. Once one

realises this we can see the relevance of studying this form of geometry. The discovery of the *Earth energy grid* was one of the things that attracted my mind to this geometry. The Russians discovered very early on in the early 60's that the basic energy grid of the Earth was like a 12-patch leather football, a dodecahedron, and they then started to produce tentative maps of the Earth's energy fields in publications

Dan Winter demonstrates rather nicely how this nesting may work to produce our world, in the fact that if you take a dodecahedron shaped quartz crystal and hold it at an angle you can see a holographic cube in the middle. This holographic cube very neatly describes our reality. A higher dimensional energy field in the shape of the dodecahedron is creating our 3-D reality as the holographic cube in the middle and as, of course, you twist the energy field so the cube disappears. This corresponded neatly with the description given by a lady of how a UFO disappeared in front of her. She held her hands one above the other vertically, palms facing, and described it as a movement with her hands, being able to describe it in words only as a *collapsing, twisting and folding*. This consisted of compressing the hands towards each other whilst twisting.

Now, for a long time this description puzzled me, but upon seeing Buckminster Fuller's favourite toy, the *dynamaxion* or *bend'a'flexor*, as he called it, which is a cube octahedron with flexible rubber joints, the exact same movement is used to twist from the cube octahedron to the icosahedron and this, I think, is a demonstration of how it is possible to change dimensions? As the energy field is collapsed, the object that looks so real in 3-D then twists and collapses into the next dimension, whereupon it becomes invisible! This is entirely consistent with the witness's statement.

Nesting polytopes and nesting energy fields are therefore essential study in order to understand how matter interacts inter-dimensionally and in how energy fields interlock to create our holographic reality. The leading workers in this field that I can recommend for study are Carl Munck, an American researcher, who has done much to elucidate the early pioneering work on the grid, along with Bruce Cathie, the New Zealand airline pilot who has written several books on the Earth energy grid.

Nineteen point five is perhaps the key number for understanding how energy can cascade between dimensions from within a sphere, from 4-D into 3-D and as the Earth is a sphere we should consider it's

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application together with the planets in our solar system and indeed the Sun itself. This was brought to public attention by Richard Hoagland, who was fronting a loosely based group of scientists who all contributed their own mathematical and special expertise to a study of the Mars surface anomaly known as the Face, especially Carl Munck from the defence-mapping sector and Mark Carlotto. His associates had been attracted by the apparent discovery of a large rock structured *Face on Mars* amongst the Viking data sent back to Earth in the mid 1970's. They noticed that there was also associated geometry relating to this strange value repeatedly described amongst the *ruins* surrounding the face. Despite much scepticism by people initially, a real advance in thought was inspired by this chance find.

For if we look at the geometry of what was being discussed by this group called the *Mars Mission*, the geometry put forward was valid. It is checkable; we can *all* go away and check this ourselves so it is a real piece of information that can be used and tested despite the controversy. Again, scientific observation comes into play from this mathematics in that we can observe that the major energy events on all the planets of the solar system occur at either 19.5 degrees North or South of the equator. The Sun with its enigmatic sunspots, that indicate major energy disturbances on its surface, can be found to have these dramatic events precisely distributed in bands at both 19.5 degrees North and South. But, why 19.5 degrees? The group discovered that if you placed a *tetrahedron* inside a sphere so that the corners or vertices touched the circumscribing sphere in the equatorial plane and the fourth point the pole, then the three corners of the base of the tetrahedron touched at exactly 19.47° (19.5° when rounded up).

This geometry was both elegant and fascinating at the same time. Just what could it all be about? Well, this is what we are going to discuss in the next chapter as I think really the whole 19.5 phenomena deserves a chapter of its own.

More fun with dimensions: to understand how it is possible to have a one-sided, or one-dimensional, piece of paper when introducing the idea of polytopic landscapes, one can use the Möbius Strip. This is quite simply a length of paper cut into a long ribbon which is then given one twist before joining the two loose ends with a piece of sellotape. You are then in possession of a one-sided piece of paper. To prove this to the audience or student, simply place a pencil onto the paper and start to revolve the paper beneath the pencil. You will find to your utter

amazement that the pencil circumnavigates the piece of paper twice and, like Robinson Crusoe discovering his own footsteps, you come back to the same position without the pencil ever leaving the side of the paper it is touching - we therefore now have a one-sided piece of paper! This can be taken further into three dimensions with Klein bottles - worth investigating!

M C Escher, the famous Dutch mathematical artist, used this to great effect in one of his famous prints, with ants walking around the Möbius Strip to give a living emphasis to it. He was a great artist and able to use spatial concepts, which he saw in his head and derive fantastic pictures of illogical landscapes based upon these false isometric drawings, that play on our optical senses in the fact that optical illusions are easy to perform on the human eye. The human eye will always look for a straight line and where there is no straight line it will connect the points to form an imaginary straight line. This can lead to lots of fun and optical illusions, as exploited by the great artist and his paintings.

Isometric drawings are a great exercise in understanding how things should look in two dimensions when you are describing a three-dimensional object and great fun can be had with dotted paper, drawing both possible and impossible shapes as we explore that concept. Really, mathematics does not have to be boring and this exercise often gets people interested in spatial mathematics.

It can also be further extended into examining complex shapes that form just one dimension, such as *Klein bottles*, which are a fun part of maths in looking at 3-D shapes that have only one surface. As Professor Ian Stewart said, 'the trouble with us is that we know too much about 3-D and we always assume when we look at something that has an outside there must be an inside. But in mathematics, especially higher mathematics, this is not necessarily true because you can have a one-sided piece of paper, just as you can have a one-sided piece of space, in which case there is no middle bit.

It appears, therefore, that we may live in this sort of universe, as creatures existing on the surface of a complex membrane or sheet of space-time and that there really is no inside to our 3-D physical universe - now just how weird is that?

Chapter Four

Nineteen point five

This chapter really belongs to Richard Hoagland and his team of associates formerly called the 'Mars mission' but now renamed the 'Enterprise Mission'. They have a rather splendid website which can be found at www.enterprisemission.com, which is always worth tuning into and having a look at the latest conspiracy theories and associated mathematics, which is very interesting. Gene Roddenbery, the creator of Star Trek, was a good friend of Mr Hoagland and so Richard has named his foundation after the Starship Enterprise and a variation of the famous phrase, 'To boldly go where somebody else has been before' is also used on his website. I prefer the sentence, 'To boldly go, where no bold man, has boldly gone before, boldly!' which just about sums up everything on this planet with a tongue in cheek sense of humour.

So, in the spirit of boldly going, we shall now relate the story of 19.5. The story really goes back to 1976 when NASA first sent its two Viking probes to Mars and these were to take pictures and map the surface of Mars in reasonable detail. This was one of the first major projects of planetary exploration along with the mapping of Venus.

Photos beamed back revealed what appeared amongst all the footage and frames of black and white photography, to be a mile-long face somewhat human in countenance, looking up into the Martian sky. Researchers such as Mark Carlotto and Errol Torun soon spotted this anomaly as they were working with the Defence Mapping Agency and therefore were very good at spotting anomalous camouflaged pieces of military equipment in desert-like terrain.

Coincidentally, this is how the stereoscopic pictures were invented where one stares at the dots and then a 3-D object emerges. Looking at thousands and thousands of square kilometres of desert is pretty boring and the people trying to locate military equipment often lose

concentration but, quite simply, looking for a 3-D object which leaps out at you is much easier and therefore the technique was developed which led to all of these pictures that people hang up on the walls in their offices and in maths rooms at schools where, when you stare at them long enough, the stereoscopic picture pops into view.

The face on Mars was just a simple pointer to draw attention and whether it is a face or not is, quite frankly, irrelevant. If something draws your attention and you gain some information from it then that must be a real phenomena; even if it is just a weathered rock it has grasped your attention, your consciousness has been diverted towards looking at that point and therefore your brain has been stimulated, it has gained information and then it has questioned that information. So, whether it was a deliberately sculptured face or whether it was just a coincidence, it did actually perform its function perfectly in that it drew our attention to that particular point on the surface of Mars.

As with everything, we can often learn more about our own world and ourselves by looking at other worlds and I found this was true with languages. When I learnt Dutch I then started to understand why I spoke English, so the beauty of space exploration is that it will help us understand ourselves more. Many people say it's a waste of money, etc, etc, but really we are helping ourselves by exploring other planets. And it is the natural human condition to push the boundaries and to explore the edges of the envelopes to see what is beyond them.

The face itself, therefore, was stunning, but no big deal. Rocks, clouds, vegetables, crisps, even cookies, often reveal faces and as we are trained from an early age to recognise and respond to human faces this is how we recognise the primal pattern of a face. A baby is programmed to survive the first few years of its life by smiling at anything that looks remotely like a face, because in that way it draws positive attention to itself.

The difference here was that when the rocks and 'monuments' around the face were analysed and lines drawn between the points, certain geometric shapes and patterns started to emerge and a whole nest of lines constructed on a map started to reveal some very interesting geometry. The overwhelming number encoded in this geometry was the angle of 19.5 degrees. We now know that it is 19.47 degrees rounded up. Why should 19.5 degrees be important? Well, it has to do with the circumscribed tetrahedron described in the last chapter. Important numbers to know are: E = Euler's number, which is the natural

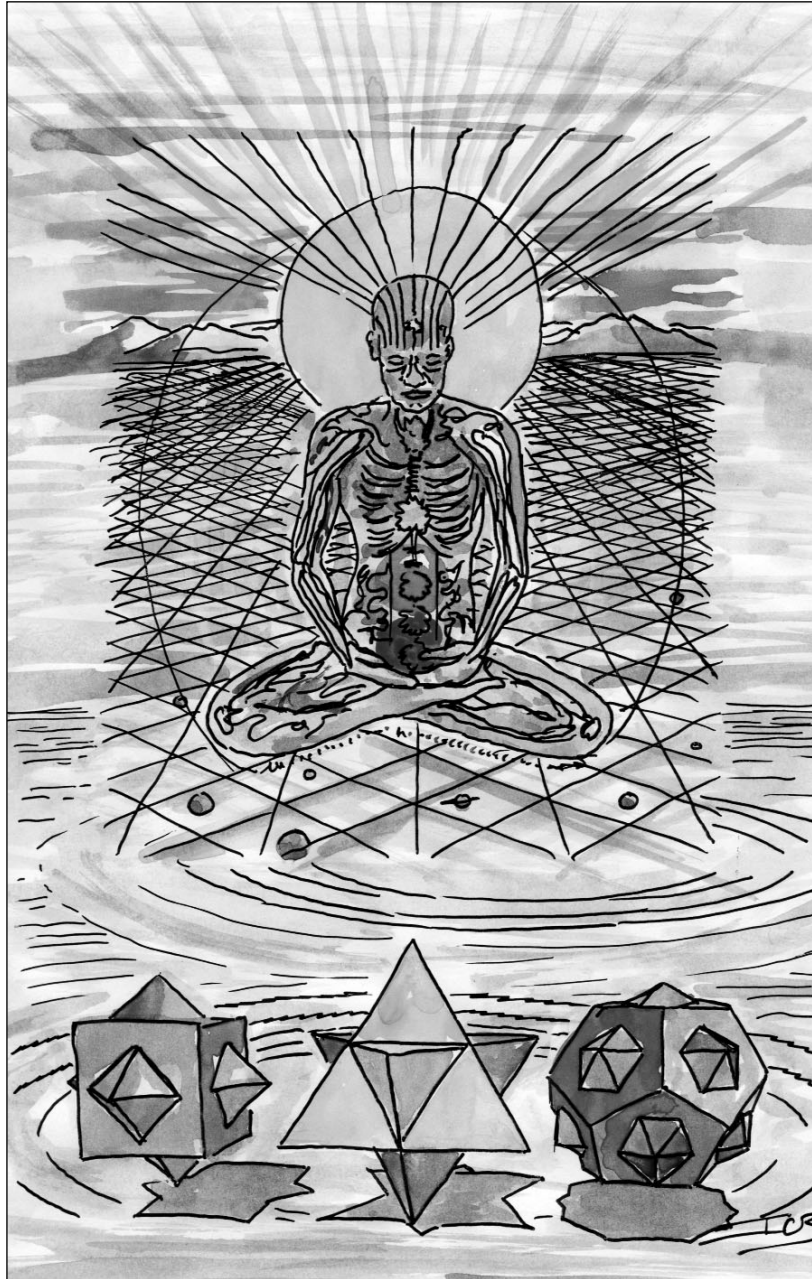
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logarithmic number of 2.71, and π = the circumference to diameter ratio of a circle, 3.1415927. Other workers such as David Percy and David Myers identified this ratio which was thought to be $E = 2.71$ over and over again, as really being 2.72. This was a difference of just 1,000th between the two products of the encoded numbers that make up the ratio: the difference between 0.865 and 0.866, so one has to measure the angles very, very closely to work out the ratios. The ratios were the tangent of 40.87 degrees North = E over π . That is the actual position of Cydonia region on the surface of Mars at 40.87 North. But E divided by π , although very interesting as a coincidence didn't really appear to be the message. The message was reinterpreted to be the square root of 3 divided by 2 = 0.866 and interestingly the square root of 3 divided by 2 times π comes to 2.720699046 which is an irrational re-occurring decimal.

Hyperdimensional energy flows from 4 space into 3 space using the geometry of interlocking rotating tetrahedra

Why is this important? Well it was soon discovered by David Percy and David Myers and some of the other workers that this was the ratio of a tetrahedron inside the sphere. If we take the surface area of the tetrahedron inside the circumscribed sphere to be 1, then the surface area of the sphere surrounding it is 2.720699046 by comparison. This they named the *trans-dimensional constant*. It was quickly realised that when we observe all the planets in our solar system, particularly Jupiter the largest, that the great *Giant Red Spot* on Jupiter is at 19.5 degrees South of its equator. When we look at Mars the biggest volcano in the solar system, *Olympus Mons*, three times the size of Everest and 300 miles across its shield base is at 19.5 degrees North. When we look at Earth we see that the *Mana Kea/Mauna Kea* area of Hawaii, which has been a continuous volcanic erupting zone for some several millions of years, is at 19.5 North. *Mauna Kea*, which is located on the big island of Hawaii is well worth a visit and *Mauna Loa*, which is also on the big island, is the largest volcano on Earth and the tallest mountain in the world if measured from the floor of the ocean where it was formed. *Mauna Loa* is 13,677 feet above sea level but over 17,000 feet of mountain lies under the water. This volcanic mountain is over 30,000 feet tall from sea floor to the summit. *Mauna Loa* started to form above the Hawaiian hot spot about one million years ago and broke the surface of the ocean about 500,000 years ago.

Ian C Baillie



Hyperdimensional energy flows from 4 space into 3 space using the geometry of interlocking rotating tetrahedra

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Also, we can see that sunspots are consistently at both 19.5 degrees North and South on the surface of the Sun. This information was then used to predict as with any good science, *that the major energy upwelling on an astronomical body would be found at 19.5 degrees to the equator*. As a major NASA space probe was due to fly past Neptune in roughly 11 days from the discovery of this information Richard Hoagland took the bold decision to predict, "that if there was any major energy event happening on Neptune then it would be at 19.5 degrees." And this indeed was what subsequently happened! So, here we have a classic piece of science, some mathematics was discovered, its import interpreted and then this knowledge was used to predict a possible outcome of an experiment.

Sure enough, the *Great Dark Spot* on Neptune was mapped as being at 19.5 degrees South of its equator. It was very quickly then grasped that an unknown energy of some magnitude was *upwelling* at these points. Therefore, if energy was coming up and out from a point, then there must be a point where the energy is going in. The proof of the pudding came when it was predicted that in higher dimensional terms the *inwelling* point would produce a hexagonal pattern, just as the upwelling point would produce a 19.5 pattern.

It was then that Richard Hoagland remembered he had seen a copy of *Icarus* the astronomical journal that had a photograph of the North Pole of Saturn on its cover and there, quite clearly in the fluid of Saturn's atmosphere, was the tell tale hexagonal pattern or signature showing the inwelling point of this unknown energy, precisely as predicted according to the mathematics they had recently uncovered. The pictures showed winds of some 300 miles per hour, making 60 degree turns counter-rotary to the actual planetary spin of Saturn. Saturn, being a gaseous planet, would float in a bucket of water, as its density is only about 0.6 grams/cm³. It is composed largely of methane and is therefore has a very fluid surface, which shows up the hyper-dimensional geometry as a shadow projection in three dimensions, so we are seeing a shadow projection in a three-dimensional sphere of a higher dimensional artefact.

It is this higher dimensional connection that attracted my attention, because at the time I was busy studying higher dimensional landscapes and shapes, looking for clues to my ongoing investigation into the structure of the universe. It was quickly then discovered that if we have a sea of energy in 4-space, that energy may be able to cascade down into

our own physical three-space and therefore appear at upwelling points of 19.5. Excited by this information I began to realise that this started to link to some sort of real technology that may be possible. Yet incredibly all of this personal study had been kicked off by the appearance of the major crop glyph found at Barbury Castle in the summer of 1991. It had attracted my attention as the *Face on Mars* had with Richard Hoagland and caused my consciousness to be awakened to the possibility of higher dimensional state spaces - not bad for the educational efforts of two old age pensioners called Doug and Dave, who claimed to have made it!

Theory is lovely, but you must always think, 'well what can we do with it?' and making some sort of technology out of it is very useful. This was explored in the epic book 'Two Thirds' by David Percy and David Myers, who then went into how this could possibly be used to make a propulsion system for a spaceship. They based their design on the shape and pattern of stones at Stonehenge combined with various crop glyphs and ground plans of our own ancient Cathedrals. This whole new set of technology could be developed from very rapidly rotating discs, spheres and cylinders, which could then be used to access higher dimensional energy. This higher dimensional energy is probably what we would term now as *zero point energy*, or linked in Eastern terms, to *chi* and in our terms, *ley line energy*. They also indicated in their epic tale, that our ancestors may well have discovered this in the long distant past. This may be the next exciting step in our own technological evolution? In that we may well be able to access this energy and use it to our own advantage, not only to keep our bodies well, for we may need this higher dimensional energy to *live* in addition to chemical energy from food for our bodies. But also to produce technologies associated with healing and transport and all to do with tetrahedra inside spheres.

Tetrahedral architecture seemed to be the way to go and Cydonia was a giant message left to mankind to have a serious look at this sort of geometry. Even if the whole thing is totally 'off the wall', if it draws our attention to something that is potentially useful and through our imagination we can create a real technology, then it must be something of value.

I found it quite amazing to realise that when they sent the recent Martian Rover in 1997 to land on Mars the landing spot was exactly 19.5 and even more precisely when I measured it, 19.47 degrees! So one has to ask, 'if this is all such a load of rubbish, why then does NASA

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deliberately land its Martian Rover, which was one of the few spacecraft to function perfectly, at exactly 19.5 degrees on Mars?’

Mars has a very chequered history in destroying spacecraft. Phobus 1 and Phobus 2, the Russian probes, were destroyed dramatically, especially Phobus 2. I have a copy of the final video signals, which show a large 25 kilometre-long object anchored alongside Phobus, one of the two moons of Mars, and this object is photographed quite clearly by the Phobus 2 probe. Something, a missile perhaps, then comes up from the surface of Mars and the space probe is lost, presumably this may well have been an inter-galactic act of aggression, but probably merely some interested party not wishing the Russians to discover too much about what is going on Mars. As with all subjects in this book the public is kept uninformed to avoid awkward questions being asked of those in authority; time to wake up - always question the system!

This then drew my attention to looking at Mars. I was already aware that our own Moon is extremely anomalous in its size, structure and path as it circulates with familiarity around our Earth. One interesting fact is that our Moon is in a *perfectly circular orbit* and this is not natural: any other natural object should be in a slingshot, elliptical or egg-shaped orbit. The only two other bodies that are orbiting around planets in our Solar System in a perfectly circular pattern are Phobos and Deimos, the two moons of Mars - coincidence?

To give an idea of the size, both Phobos and Deimos would fit into the landscape of London quite comfortably so their size is not too large. They would be perfect observation platforms if hollowed out to be permanently orbiting space stations. This concept is beautifully simple, in the fact that rather than construct an artificial satellite as we are doing with our *Freedom 1 Space Station*, one simply hijacks an asteroid, places it in orbit around a planet and then proceeds to hollow out the asteroid to make a base. It is rather neat. But, of course, you have to have planetary engineering capability and the ability to move rather large objects in space, which although at first seems improbable, NASA has considered it to be entirely possible and not only probable, but desirable. As with moving boats on the sea, with very little friction, it is very easy to move large objects in space, as there is reduced resistance to movement. So it is entirely possible to shunt asteroids around given powerful enough technology. This, indeed, may be what we are going to do in the future?

The Red Planet has always attracted human attention from earliest

of times, being associated with a war like God by the Romans and even giving its name to a French day of the week. This Mars mania was heightened considerably when the famous novel *War of the Worlds* by H G Wells, written at the end of the 19th Century, was published. Later on, Orson Welles produced the same story as an equally infamous radio play. Timed just prior to World War II it caused considerable hysteria and mass panic across America. In this may lie authorities irrational fear of revealed knowledge to the general public? The panic engendered by the War of the Worlds radio broadcast probably did more to cause long-term harm in exploration of our Solar System than was at first realised. The authorities became quite concerned at the ease with which panic was engendered in the population by a simple radio broadcast. They then became super-sensitive to releasing information that may lead to the discovery of life outside our planet, and the McDaniel's Report of 1959 was instrumental in putting the dampers on such freedom of discoveries. It was stated quite simply that if we did find signs of life in our solar system it would be entirely appropriate to withhold that information from the general public in order to avoid mass panic in such things as the stock market and with world religious groups.

Suddenly finding that we are not the centre of the Universe, as in the medieval days, is may still strangely be quite a shock to the human psyche or at least it is perceived to be by the authorities. To me it is no big deal, as I, with an enquiring *Hitchhikers Guide* mentality am not worried in the least. The thought of destroying Planet Earth to make way for a hyper-space bypass, as Douglas Adams neatly summed it up, demonstrates that I think we are now grown up enough to accept the fact that we may not be the most advanced beings in the Universe. I very often regard us and our species as being small babies taking our first steps outside the cradle and just beginning to understand how wonderful the Universe is and the only thing that really scares me is an uneducated human with a machine gun!

Mars, therefore, is an enigma. It can be seen from Earth, it is approximately half the size of the Earth. It therefore fits neatly into the geometry of two circles ratio 1:2, which, when constructed with an equilateral triangle touching the first, Mars, the points touch the second, Earth. Thus to recap, Mars fits comfortably touching the internal lines of the equilateral triangle, the equilateral triangle being centred and touching the inside of the circle of the Earth. This is rather a neat geometric analysis; it is not absolutely perfect but, again, nature is not

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perfect as it deals with irrational numbers and not usually with whole numbers, there is in fact only a 3.3% discrepancy. Therefore, seeing the ratio of 2:1, if it was perfect would be highly improbable. However, it is elegant enough to cause some sort of reflection upon the relationship between Mars and Earth when one contemplates the diagram of the circumscribed triangle containing a circle.

It is looking at this geometry which helps to focus and explain our position in the solar system. When I managed to obtain a copy of John Martineau's excellent book *A Book of Coincidence*, we see this taken to ever extreme lengths with the patterns of our own solar system and the planetary bodies that make up our own backyard. One of the most stunning analyses of the whole book, which was originally discovered by John Michell, a famous geometer and architect, was the original geometric solution to the four inner planets and the Earth's moon. This was found to be incorporated in a sacred diagram, which of all things overlaid Stonehenge perfectly, showing that Stonehenge is actually a megalithic monument dedicated to the universal pattern named by ancient mystics *squaring the circle*.

So, in the scheme of things ancient man's knowledge of this Earth-Moon-Mars connection, together with the dimensions of the other inner planets, is absolutely staggering and whether simply coincidence or design, it is a major question for us to ponder on. Let us pause to consider, just how did our ancestors know this precise geometry and then to encode this information in a megalithic structure of such profound importance as Stonehenge? When one looks at Stonehenge one is constantly marvelling not just at the actual stones and placing them in their position, but to the actual geometry that is explored and expressed in this structure. One of my colleagues once said that it is as much a marvel to find the position on the Earth to build Stonehenge as it is actually to build it and this very simple statement puts into perspective just how magnificent the whole monument is.

We can however, investigate as to how the information was obtained. Originally I thought, perhaps extra-terrestrials may have turned up and told us how to build it! Then I thought, perhaps our ancestors saw crop circles in the field and decided to encode the information in a more permanent way using stone. But we do know that something very profound happened to the human race around about 5,000 BC down to 2,000 BC, for over 1,100 stone circles were built in Northern Europe alone. A massive undertaking of megalithic proportions, literally!

Together with cities, ziggurats and pyramids, an explosion of organised civil engineering on a grand scale flowered without explanation.

As if by the sound of a magic whistle blowing, this craze for monument building took off in the biggest way imaginable and more remarkably across the whole of the Earth's surface - had man made a sudden leap in consciousness, had he discovered religion? To an enquiring mind the time scale and the archaeology just do not add up.

Quite erroneously, the label *stone circles* can be regarded as wrong, as a simple generic description for the whole phenomenon, as two thirds of the circles are in fact heart-shaped structures, which are slightly more complex than a circle and are of astronomical importance in measuring data. The whole idea of megalithic observatories was explored successfully by Gerald Hawkins in his famous book *Stonehenge Decoded*, which did much to take the monumental ruins of our poor uneducated ancestors out of the archaeology books and place them into the mathematical and astronomical books thereby raising people's awareness. Let us now examine this remarkable megalithic structure in detail and look at it in ground plan view. We can see encoded in its dimensions that the four inner planets superimposed onto Stonehenge are such that the Earth fits the outside of the main trilithon circle. Venus fits to the polished inner surface of the trilithon circle; Mars fits the inner trilithon horseshoe and Mercury the inner bluestone horseshoe! (John Martineau 1995)

Further, that if we change scale then the outer ring of trilithons, represents remarkably the geometric orbit of the Moon around the Earth, the Earth being the precise dimensions of the inner circle of bluestones. If we then construct a square around this inner ring of bluestones and draw a circumference line through the centre of the outer ring of trilithon stones then we have what is known as *squaring the circle*. This is an ancient geometric conundrum whereby the circumference of a circle circumscribing a square is made to have exactly the same perimeter in terms of number of units as the square - 44 to be exact. (John Michell 1972) This remarkable piece of geometry is far beyond any coincidence imaginable. It has to be a deliberate piece of geometric mathematical engineering.

This begs the question; by whom or what was the Moon placed in an artificial circular orbit around the Earth? And as Edgar Casey, the Sleeping Prophet, said in numerous responses to questions about the Great Pyramid at Giza and its secrets, 'One will know the secrets of the

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Great Pyramid at Giza when one can measure the Earth accurately'. Now remarkably this seems to extend to the Moon, Mars and the inner planets.

But how our ancestors came about this remarkable feat one can only conjecture? I tend to think now that it was shamanic intuition, which revealed information as to how the landscape worked and how it was in harmony with what we have seen in the heavens. Certainly our ancient stone-age predecessors were not any slouches when it came to geometric construction. The mere fact that they did not have calculators and computers did not stop them using their brains. As the book *Uriel's Machine Uncovering the Secrets of Stonehenge, Noah's Flood and the Dawn of Civilisation* by Christopher Knight, Robert Lomas demonstrates, they had very accurate knowledge of calculating precise measurements and sizes of these ancient astronomic monuments.

Naturally the Earth and the Sun took precedence in the panoply of natural phenomena as these were the orbs that regulated human life in its prehistoric phase. Now that we are more divorced from natural reality and the landscape, we have lost the meaning of these particularly important astronomical objects in our daily life, preferring to relegate their importance to the novelty of facile horoscopes found in the pages of our daily tabloids. Rather, we are now rediscovering what our ancestors already knew, and therefore reconnecting ourselves to the land and to the heavens. This is part of the natural cycle of evolution of man and it is no coincidence that as we approach the end of time for this particular phase, 2012AD, that we should be waking up and rediscovering this ancient knowledge. It is a process of reflection on and evaluation of our own past and every one of us contains in our DNA a direct link to that past. DNA encodes more than just physical looks and species type. I have discovered that DNA is the key to memory and to accessing memory of the past.

Now, we move on to another interesting *coincidence* concerning tetrahedra. Stan Tenen, an esoteric intellectual mathematician of some note, has discovered a link between tetrahedra and the Jewish alphabet. He was busy working on higher dimensional mathematics and tetrahedra when he realised that there was a possible connection with the Jewish or Hebraic alphabet: specifically in the production of the shape of the *flame letters* as he called them. Stan Tenen (you can access his works at www.meru.org) discovered that if he took a spiral and placed that spiral into the centre of a transparent tetrahedron and shone a light

source through that tetrahedron, then the shadow projections falling onto a two-dimensional surface mimicked the Hebraic alphabet. And more amazingly, that the sequential rotation of movement referenced by the turning of the tetrahedron gave out the letters in alphabetical order!

When one cross-references Stan Tenen's amazing discovery with the discovery of the *Bible code* as put forward in the book by Michael Drosnin, one is left in no doubt that somebody handed this alphabet to the Jewish people. The first five books of the Bible, the original Torah, were written in Hebraic using the flame letters and this is almost certainly a holographic record for humanity to decode. Sir Isaac Newton spent half of his lifetime trying to decode the code in the Bible. Unfortunately for him, he had no access to advance computer systems to help him crack the code.

Stan Tenen also noticed that this remarkable discovery could be used, if a different starting point was taken, to give a projection that gave the Arabic alphabet. Arabic script is very similar in look to the Jewish alphabet, at least to Westerners' eyes, probably not if you were Jewish or Arab. So it is ironic that not only are the Jewish and Arab peoples related very closely in DNA, but that their two alphabets are also very closely linked by this remarkable set of coincidences.

There then developed a long running battle as to the exact shape of the spiral. Dan Winter another esoteric mathematician was convinced that it was a Phi ratio golden mean spiral, but Stan Tenen maintains that the original spiral was a one-seventh or Egyptian spiral. A rather acrid courtroom battle ensued in the late '90's whereby Stan Tenen, through an injunction, managed to limit the work of Dan Winter from being published on the World Wide Web and also through videos and books. I can understand Stan's chagrin at the plagiarism of his valuable discoveries. But however, from the point of view of an academic, or just a plain interested party, both camps have a great deal of merit to their arguments and it is therefore well worth looking in detail at both of these people's work.

The tetrahedron is, therefore, seen to be a very profound shape for a number of reasons. It is the modelling for everything in three dimensions. It also appears to hold the key to accessing higher dimensional energy for if we can unlock that energy with the key we have started to discover, then we will have an infinite source of energy that is pollution free. Finally, it will enable the human race to achieve its freedom from the fossil fuel dependency of the past. Where we go as a

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planetary civilisation from there is up to us, the sky is the limit or should we say universe!

A start has already been made. Scientists have found that by rotating a ball bearing it increases in height when fired from a spring-loaded cannon. The projectile appears to access more energy and therefore travels higher, further and faster than without spinning. Energy is neither created nor destroyed, but merely transferred from one form of energy to another. Therefore, any energy input will come back out in various novel ways.

David Percy in the book *Two Thirds* took this a step forward and discussed what he termed as 'the spinning disk'. Instead of a sphere being rotated, this was a flat disk, rotated at an extreme rate of revolutions per minute. For this to happen it was suggested that 75,000 revolutions per minute was required. This was the speed needed to obtain access to the higher dimensional energy with a disc 54 feet wide. The disc had to be levitated on magnets to provide friction-free bearings. We have small rotary drills that approach 30,000 revolutions per minute. One only has to think of stepping this up three times in speed to access the speed necessary to obtain the higher dimensional energy flow. An experiment should be possible once the bearing problem has been sorted out?

Another way of obtaining this higher dimensional energy flow from four-space into three-space is to access it through not just the use of mechanical devices or revolution as shown by the planets. But by *electronic vibration* and various experiments have been constructed using electronic components, which switch at extremely high rates of transition. A Russian scientist produced an apparatus which, once fired up and electronically vibrating, was self-sustaining despite the external energy being cut off. The light bulbs it was powering continued to glow even though the initial start-up power was turned off, so a form of access zero point energy may have been obtained. These devices are more correctly known as *over-unity* devices.

The idea of an over-unity machine is not a new one. John Worrell Keely spent half a lifetime examining sonic resonance machines. I am still undecided as to whether he was a charlatan or a genuine seeker of the truth. His work is veiled in much secrecy, but seems to have a definite core element of truth and validity. He was hoping to tune into the cosmic vibration of the Universe and therefore access four-space energy. Unfortunately, in order to obtain funding, he very often

constructed elaborate machinery for purposes of shareholders to view. This was sometimes found upon analysis to be using magician-type tricks, smoke and mirrors etc, very often with puffs of steam from hidden vents to give the illusion that the machinery as running on free energy. This is unfortunate, as it discredited his work in the eyes of the true scientific community. In truth I think he was merely gaining funds to pursue his experiments and as we know, experiments are very expensive to produce, especially with fine-tuned engineered pieces of equipment. Any type of experiment of this sort requires large amounts of money. Dale Pond has recently taken up this much forgotten work and is making headway in producing over-unity designed machines using sympathetic vibration technology.

Thomas Townsend-Brown used electrostatic methods for attaining electrogravitic flight, as have several other workers. Their flying disc craft worked on the operational principle discovered by the German scientists of the early 20th century, they were not true spaceships as they were designed to operate within the Earth's atmosphere. But other propulsion systems were designed that accessed zero point energy and could therefore be regarded as true spaceships; Viktor Schauberger was an early pioneer of these craft. The problem appears to be in once accessing the energy, which is like finding a plug socket in a very large wall, the energy flows at such a rate that it is very hard to control successfully. Most machines tended to blow up or spin off their bearings or do other such remarkable tricks, usually resulting in the total destruction of the machinery and if not injury and death to the operator!

Like John Worrell Keely, Viktor Schauberger, the Austrian pioneer of free energy, was convinced that by copying nature we could access the hidden energy of the universe. He made various machines, which utilised electromagnetic and mechanical forces. Unfortunately for Viktor Schauberger he was persuaded by the Nazis in the early 1930's to co-operate with his discoveries and various reports of machines flying through ceilings and hidden laboratories in Schloss Schönbrunn inspired many tales surrounding his work. In truth he was just a natural scientist who observed nature, particularly the swimming motion of fish, like salmon up rivers, and copied the motion of the fish and of the water it was swimming through. His claim to fame was for inventing a water-based system for transporting logs from the Austrian forests using minimal water volume to float down giant chutes over vast distances.

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His knowledge of constructing the flumes to facilitate the transport of these logs saved much money for the Austrian Forestry Commission. Being a double-edged sword he was very successful on the one hand, but his work led to deforestation of Austria on the other. As with most inventions, profit often takes over from scientific integrity. Unfortunately we live in the real world and we always have to be aware of this.

Ernst Rutherford famously said in 1925, "He could not see that his work would have any significant economic, political or social effect what so ever." How wrong he was! Splitting the atom led directly to the atomic bomb, which ended World War 2 when it exploded over Hiroshima in 1945. It was ever thus, as we see that science can be hijacked by political masters of dubious integrity and honesty to promote the evils of war and profit-making without scruples.

Another notable scientist to work with free energy ideas and concepts was Nikola Tesla, who came from Serbia to the United States and was a contemporary of Thomas Alva Edison. Thomas Alva Edison was a hard worker and once said that an invention was 99% perspiration and 1% inspiration. Nikola Tesla was recorded as saying, 'Well in Edison's case that is probably true!' For Nikola Tesla was much more of a thinker. He was very interested in high voltage electricity and the effects that could be achieved with forces in the magnitude of lightning bolts. Artificial lightning could be created through his *Tesla coils* and then used to manipulate objects and make machinery work. Free energy is accessible once we know the geometry and mathematics. Equally understanding the limitations of our 3-dimensional view of the Universe allows us to expand our horizons, for as we now approach 2012 at the start of the 21st century we have achieved just about everything we can achieve in 3-dimensional space.

We are at this point stuck by our limited access to energy to produce new and more efficient technologies. One of the avenues of escape is to examine this higher dimensional energy source. I have often said, with subjects that I term *Forbidden Science*, if it leads to a good idea and something that we can use, then it is very worth while for us to investigate. I see all of this information very much as the human race being in the equivalent position of a condemned man in a cell knowing that without an escape we will be hung in the morning. If somebody passes you a message under the door which tells you how to escape and by what means, then one shouldn't sit there trying to analyse the

handwriting to discover exactly how the message was constructed or written, or by whom, or how the message got under the door. One should concentrate firmly on the message, no matter how anonymous the information, and pursue as an avid detective that avenue of research, for it is only if we look under stones and turn them over that we find new things.

In my lectures people often ask me, how do you know so much about all these things? The answer is, if you walk down the high street these ideas and this information is not going to just hit you. It is not on public display. Any information worth knowing takes hard work or money to get hold of, usually both. Often you would have to invest a large amount of money and know exactly where to look for this information. With the advent of the Internet in 1991 access to information, especially underground or black science information became freely available on the World Wide Web. It is often placed there by people of a similar nature, who have no profit motive in mind, but merely want to get the information out for philanthropic reasons. As you will see later on in this book, my life long quest for *Forbidden Science* has helped me to resolve my own self-imposed question of, what happens when we die? The old saying, "Physician heal thy self" comes immediately to mind and remarkably I have!

Now at the conclusion of my studies after 20 years, I have reached some definitive answers and I feel that it is time to now help other people achieve the same. In the spirit of this investigative mood, it is a good idea not just to take my word for it. But always to check everything that you have read in this book and to use it as a detective does to find further leads to whatever you, the reader, are interested in. All of us are unique and we all have a different agenda; each agenda is equally valid and, as travellers along the road of life, dwellers in the physical matrix inhabiting time, we merely share the journey along the road and try to help each other. In the next chapter we will see this remarkable piece of geometry known as 'squaring the circle' being brought into play over and over again; a very profound piece of esoteric geometry that has many hidden connections to the functioning of our beautiful spaceship planet and its sister moon.

Chapter Five

Squaring the Circle

This chapter is about the relationship between the Earth and the Moon. This wonderful geometric relationship should be part of everybody's birthright and education as we are all human and inhabit the surface of our wonderful planet Earth. The planet would not work without the Moon, for the Moon brings order and regularity to the affairs of the Earth. It is two thirds responsible for bringing in the tide and sending the tide out twice a day, together with the Sun that supplies the other one-third of that energy. But the relationship between the Moon and the Earth is a very close one, so much so that we are really a double planet system.

There are many anomalies as to why the Moon is like it is, for we shouldn't really have a moon at all! The inner rocky planets are really too small to capture any substantial sized objects that can be classed as moons. When we look at the Solar System we have to travel beyond the asteroid belt to encounter Jupiter with its approximately 20+ moons, the four major ones of which are similar in size to the inner planets and our moon.

The Moon is therefore completely anomalous. Most astronomy books state the known facts and the facts that can be explained. They do not put down any facts that can't be explained because they like to avoid embarrassing questions. The first embarrassing question is why have we got a moon at all, for we shouldn't have one. If we then consider from various sources, but chiefly from a wonderful book called *Moongate: The suppressed findings of the US Space Program* (1982) by William L. Brian, II, which highlighted many of the anomalies so far found, we can see that the following 20 anomalies are extremely interesting and guaranteed to annoy any local classical astronomer who would probably be at a loss to answer why this was.

Our beautiful moon is far too large and it orbits far too far out. Its

mean orbit is some 240,000 miles, which just happens coincidentally to contain the number 24, which is the number of hours in the day. This equates to approximately 150,000 kilometres, but as we will see when we look at measurement, the metric system is not a galactic measurement, it is rather a man-made equivalent although it does bear, interestingly enough, some harmonic proportions with our old Imperial Units used before the advent of metric and in turn the Imperial Units bear a direct relation to Egyptian Units in that 1,000 Imperial Inches were the equivalent of 999 Pyramid Inches.

The next anomaly is that the Moon appears to be hollow and there is no known geological mechanism for a hollow planet or moon. The evidence for this came from NASA themselves for they crashed the lunar lander LM section of an Apollo spacecraft into the Moon, which then proceeded to ring like a bell for up to 24 hours. This puzzled the NASA scientists greatly for they had not expected such a result. It did indicate, therefore, that the Moon was possibly hollow.

It is really a double planet in size with the Earth yet the geological history and conditions of the two are totally different. There have been many attempts to account for the geology of the Moon and how it got there, be it birthed from the original hot substance that produced the Earth, but it really seems more to have been captured by passing close to the Earth and then entering the Earth's orbit. This capture theory would, therefore, account for the totally different geological conditions. Inner planets do not normally have moons, only the larger gas giants. As I have already said, one has to look at the giant planets like Jupiter to have large moons.

It is perfectly circular in orbit - a natural object should not be perfectly circular in orbit, it should be a sling shot pattern or an ellipse. Incidentally, as mentioned previously, Phobos and Deimos, two small satellite moons of Mars, are the only other two perfectly circulating orbiting objects in the solar system - coincidence?

The Moon just happens to cover the Sun's disc completely during solar eclipses? This in itself is a remarkable coincidence for our Moon is of just the right size and just the right distance from Earth to obscure the Sun's disc at certain times and movements. The coincidence of this alone is regarded by some as beyond chance.

It has a precise size ratio of 11:3, which is a very interesting combination as this is precisely the size ratio needed to complete the squaring the circle diagram. Yet, if we look at the mass of the Earth to

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the Moon it is 81:1, which means that it is far lighter than its quarter volume size should be. This again ties up with the idea that it is hollow. One would expect a more reasonable figure of volume to include a higher fraction for the Moon. Interestingly, $81 = 9 \times 9$ and also there are 81 naturally occurring elements in the periodic table. This is because two, Technetium and Promethium, No 43 and No 61, are radioactive and transmute to other elements in a small number of days after they are produced. So the number 81 is a very interesting number and that it should be found in the ratio of mass from Earth to Moon is correspondingly an extreme coincidence.

Next we come to the Moon's rotation, which is exactly synchronised so that we only ever see one side of it from Earth. This in itself, again, is a bizarre coincidence. Also that there are 13 moon cycles to a year and therefore our natural calendar should contain 13 months of 28 days with one day over, which would be considered an aboriginal calendar, and one that is in harmony with the Earth and the Moon. Yet for reasons of control from authority we are forced to have a 12-month year, which makes our biological systems not work so smoothly. This may or may not be deliberate as a control mechanism? But in the end one has to be sceptical and assume that this was in fact a deliberate attempt to throw humanity off balance, for harmonic aboriginal people are quite hard to control, because they are in tune with their environment and therefore do not respond to fear based control mechanisms that are used.

The surface of the Moon is completely different on the far side to the side that faces us and really it should be the same. If it has had equal bombardment from meteorites over the course of its history then both sides of the Moon should be equally cratered. This in itself is a tremendous anomaly and caused great consternation when the first pictures of the far side of the Moon, which was then called the *dark side*. But of course the Moon's day is two weeks long and both sides are bathed in light so the *far side* is a better and more accurate description. It may have given risen to Gary Larsen's Far Side cartoon strip for as a name the far side is a complete farce and does not match up with the near side of the Moon, so much so as to be hilarious!

The next fact is the fact that the Moon bulges and yet this anomalous bulge is away from the Earth on the far side of the Moon and not on the near side as one would expect with the constant gravitational pull of the Earth. Therefore we have to assume that this bulge did not occur whilst

the Moon was in orbit for, had it geologically settled, then the bulge would have been towards the Earth.

The surface of the Moon has an unusually large proportion of Titanium, something in the order of 10%. This in itself is completely bizarre as Titanium should be found within and combined with the rocks beneath. It is such a high percentage that it is considered worth economically to mine.

No crater is more than 4 miles deep even though the diameter of some may be as much as 70 miles across. From elementary science we know that the larger the object that hits a surface, the bigger the crater. This is a simple classroom experiment. Yet, here we see with the Moon, that the large craters are no deeper than the relatively small craters - again an anomaly.

The rocks on the surface have widely ranging ages from 4 billion years to 20 billion years yet, as we know, the universe is only thought to be 15 billion years old. This caused NASA so much trouble that they labelled the door of the rock analysis laboratory 'The Looney Bin' because of the confusion that was found with similar rocks next door to each other on the surface of the Moon having such widely ranging ages.

The surface of the Moon can be observed to be dusty on the videos from NASA, yet dust cannot exist in a vacuum, as it only forms with air. It should therefore be less dusty.

The lunar sidereal month is 27.3 days, which matches the acceleration of the Moon of 27.3 centimetres per second per second - again, a total coincidence. The Moon's radius is 0.273 times that of the Earth's radius - another bizarre coincidence - or is it?

The combined radii of Earth, 3,960 miles, and the Moon, 1,080, miles equals 5,040 miles, which is exactly 1 times 2 times 3 times 4 times 5 times 6 times 7 or 7 times 8 times 9 times 10, which equals 5,040! Incidentally, for good measure, 8 times 9 times 10 times 11 equals 7,920, which is the number of miles diameter of the Earth. Plato considered 5,040 to be the perfect number for the population of Atlantis and used it in his various musings about geometry as a key number - again another interesting coincidence.

Finally, the Earth/Moon ratio of 11:3 gives the answer to the geometric conundrum of ancient times known as squaring the circle. This, again, is far beyond coincidence. We will see how squaring the circle is integral to not only our physical bodies and the ratio of our satellite to its moon, but also in the profound impact on consciousness

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with humanity to do with sacred architecture from Stonehenge to Chartres Cathedral.

But first of all we need to draw for ourselves a diagram of the 11:3 ratio. I consider it worth taking some time to describe briefly how you do this. For everybody should know how to construct this wonderful piece of geometry.

Step 1: Draw two circles tangent to each other of diameter 11 units and diameter 3 units such that the small circle touches and fits on top of the large circle.

Step 2: Now, construct a square box around each of the circles. The side of the large square box will be 11 units and therefore its perimeter 44 units and the side of the small box will be 3 units respectively and its perimeter therefore 12 units.

Step 3: Now with your compasses draw a circle radius 7 units such that the centre point is on the centre of the Earth and the pencil is on the centre of the Moon. Describe the circle and complete. This circle, which geometrically is the orbit of the Moon, will cut the corners of the square - squaring the Earth.

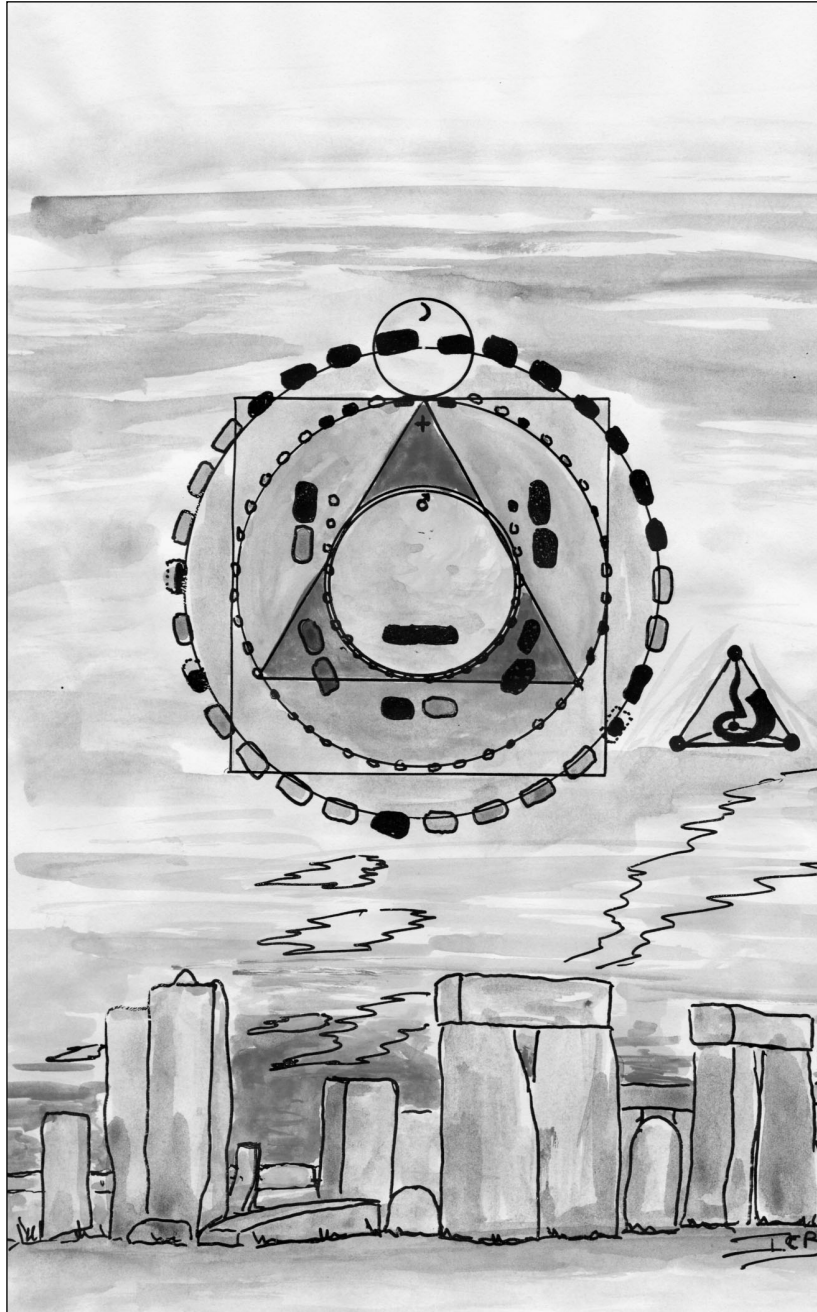
When measured, remarkably this circle's circumference will be 44 units, which precisely matches the perimeter square box encompassing the Earth. This pattern of squaring the circle is known from ancient geometry in Egypt and was posed initially in relatively modern times as a conundrum by the Oracle at Delphi to challenge the Greek mathematicians of old.

The diagram you are now holding is, amazingly, 99.9% accurate and, even more amazingly, will overlay the ground plan of Stonehenge and the high altar area of Chartres Cathedral, for many sacred sites use this geometry incorporated within from rose windows to ground floor patterns. Ratio and patterns seem to pervade our consciousness at all levels and, as we will see in a minute, it is to do with our very own bodies as well.

Squaring the circle - megaliths and monuments

John Michell in his *A New View over Atlantis* book goes on to include a diagram which uses this Earth/Moon ratio as a basis and extends it further to using a half-size circle in the Earth which, as we have already seen, represented Mars, with a triangular construct. When repeated four times the triangular construct makes 12 positions or points. On each square side of the Earth place three moons touching the Earth. We then

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Squaring the circle - megaliths and monuments

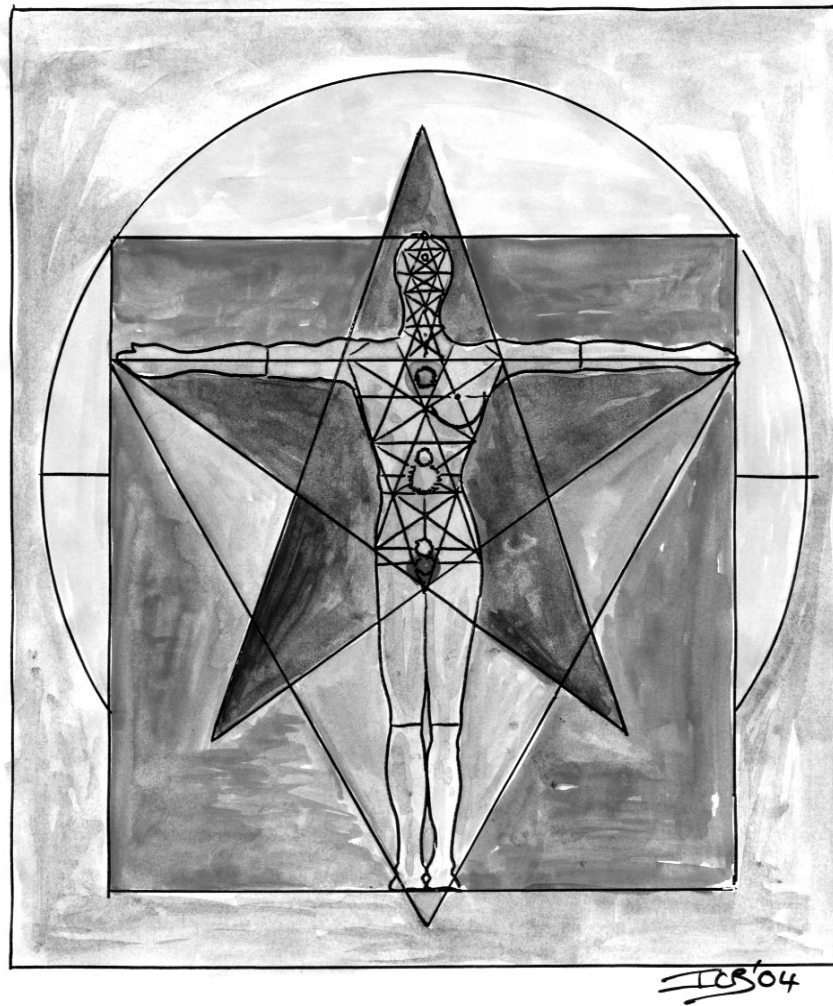
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have a sacred diagram which John Michell terms '*the New Jerusalem diagram*'. It is said in his book that at Glastonbury, which was the foundation point of Christianity in our country way before St Augustine, a proto-Christian culture thrived around 2,000 years ago. The Glastonbury religious community laid out their community according to this ancient mandala. As a mandala, or pattern is to be contemplated, it works very, very well. The New Jerusalem diagram contains many interesting and fascinating basic construction principles.

I was first drawn to the famous pencil drawing of Leonardo da Vinci describing the divine proportions of man as a child, but understanding the significance of the *squaring of the circle* drew me back again in 1998 after witnessing its construction in so many crop formations of that year. The man is clearly spread-eagled touching the edges of a circle, yet also encompassing the man is a square such that his feet and hands touch the square. Leonardo da Vinci was, therefore, obviously aware of this sacred pattern and its relationship to the proportions of the human being. Whether, he was also aware of its proportions relating to the Earth and the Moon is a matter for conjecture. But certainly Leonardo da Vinci was also a *Grand Master of the Order of Knights Templar* and, therefore, would have had access to many esoteric volumes of lost knowledge hidden from the sight of common folk. To demonstrate his mastery of the subject I think he cleverly encoded his geometric knowledge of this occult information in this drawing for all to see, but for none to truly understand except those in the know!

Spurred on, too, by the idea of finding hidden geometric symbolism within pictures as within crop circles, I then successfully deciphered the famous drawing. It was John Martineau's original work in 1993, which first drew my attention to the fact that one should look for the hidden geometric figures such as pentagrams, hexagrams and such like within the circular objects on display in our fields. I decided to analyse in the summer of 1998 Leonardo's drawing and I found an amazing set of geometric maps demonstrating a complete mastery of and awareness of symbolic geometry. I discovered that every gesture, every line, every finger is there deliberately to indicate the hidden geometry. Only acolytes and students of da Vinci and, possibly the Order of Knights' Templar, would be aware of the secret symbolism encoded in the famous drawing. It would, so to speak, be a universal badge of their order on public display showing in the Renaissance the very foundation of this new knowledge brought to light from the Dark Ages.

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The divine proportions of man

The divine proportions of man

As you can see from the basic diagram, *the squaring of the circle* is alluded to as it fits the proportion of man, therefore to produce a classic diagram and to make it less obvious it has to be adjusted. But everything is checkable once you know what to look for - try it! One can simply get an accurate photocopy of the picture and, with a ruler and pencil, busy oneself discovering the hidden geometry within. This symbolic geometry is effectively the key to consciousness. It affects our subconscious and interacts with our very being without us knowing, for our subconscious perceives the straight lines that are not there and can decode a pattern very rapidly whilst our conscious mind remains totally oblivious. These messages therefore affect our very being and, as they are subliminal in structure, they are quite powerful because people do not realise that they are looking at these constructions and the fact that they are altering their perceptions and awareness of reality around them.

The Nazi swastika is a classic example of this, especially when reinforced by aggressive colours, black on white and red. It is a primal symbol found around the world in many different cultures, usually for good, rain Gods in South America, fertility symbols in the far East and also I have found it at the heart of a Julia set fractal, which shows its primal pedigree. It will raise more emotional reaction and cause more discussion than any other symbol I know of. I often use it as an experiment at talks on Crop Circles to wake up the audience to the power of symbols - try it on your friends and family!

What are they hiding then? Well, if we go back to the Moon, the Moon is far older than we dare suspect. My own theory is that the Moon was probably shunted into orbit around 597 million years BC in order to make this planet wobble in such a way as to stimulate the production of *ley line* or *fourth dimensional energy*. This energy may be required for producing life in abundance and certainly if we look at the fossil record we see that up to then 4 billions years of evolution on this planet produced nothing more than a few molluscs and sponges. But 597 million years ago there was an enormous explosion in the variety and quantity of life on this planet, which has continued to the present day. Nature's relentless evolution of different species to populate the planet in ever more novel forms and to increase in consciousness and intelligence, dare I say, was probably stimulated by the induction of the Moon into the Earth's orbit.

Exactly who or what was responsible for shunting the Moon into a

precise orbit such that it conforms with all the anomalies that I have laid out at the beginning of this chapter is a matter of incredible conjecture? But certainly if intelligent beings are responsible, if they are indeed the architects of this remarkable feat, created this as a conscious act of will with technology that far exceeds anything that we can imagine at the moment. The amounts of energy required to shunt a planet-like object across the vastness of space and park it into orbit around another planet is quite enormous and quite an undertaking, but not something that is impossible. For we ourselves have considered the art of *terraforming* or producing habitable planets using planetary engineering, starting with our neighbour, Mars - it only requires will power and energy.

The Interplanetary Society has in its vaults very detailed plans and ideas for altering the atmosphere and surface on Mars. The key to life is water and certainly Mars now appears to have had vast seas and been very similar to Earth in nature perhaps just 20 million years ago. But some disaster befell Mars and it lost its water, although the latest evidence shows that there may still be residual supplies under its surface. The reason for this may be that Mars, being half the size of the Earth, has a lower gravitational field and therefore the water probably just evaporated into space after some traumatic event.

Remote viewers have *seen* that the culprit was probably a passing asteroid that grazed the surface of Mars and caused a ripple effect in the oceans, which continued to oscillate and then evaporate into the space beyond the atmosphere. On Earth these ripples would have subsided after a small number of extremely violent days on Earth. Within possibly two or three days the gravitational field of the Earth would have calmed the waters and business would have picked itself up, dusted itself down and begun to move forward again. We are extremely fortunate to have a planet that is such that it is just large enough to stabilise itself naturally.

Maybe the same progenitors that placed the Moon in orbit around the Earth also placed Phobos and Deimos in orbit around Mars, for Mars would have been a twin Earth-like planet. It does come within the habitational belt in terms of radiation from the Sun because, as we now know, it is the atmosphere that converts the radiation to usable energy in the form of *heat* to keep the surface at a moderate temperature and the systems going. If Mars were to have a similar atmosphere to Earth then it would probably contain life, and therefore the hunt is on to find the first signs of life on Mars. This discovery when found will profoundly alter all of our books on human history and the availability

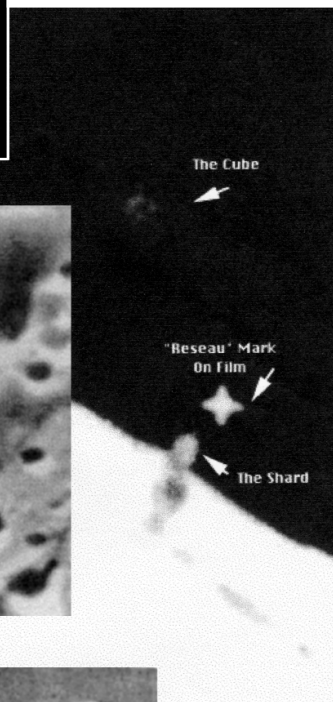
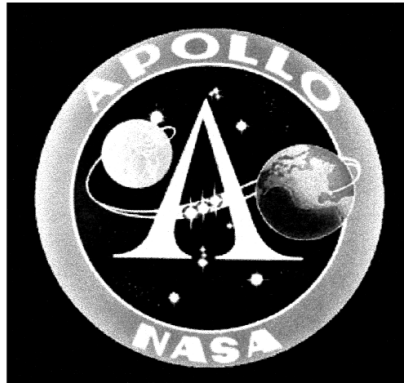
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of life in the universe. For, if our nearest neighbour also turns out to contain, not just lower life forms, but evidence of habitation of higher life forms, then we really have to re-write our history books. Many workers controversially think that we ourselves are descended from the inhabitation of Mars! This may not be such a ludicrous idea, for as we see with our own ancient monuments on Earth, there has been without doubt a number of higher cultures previously on this planet. More than is generally accepted in the perceived wisdom of our mainstream history books. One really has to look at the evidence and weigh it up rationally, if one is to change ideas and to find out the truth.

NASA, which in the 60's came to stand for *Never A Straight Answer*, rather than National Aeronautical and Space Administration, may have been set up as a civilian agency initially. But certainly after the assassination of John F Kennedy, in which we could have witnessed as a possible military coup, it was hijacked by the military and used for military purposes. Still under the guise of being civilian and, still being paid for by tax dollars, the information gained was not disseminated to the public openly as it should have been. Various acts of National security were used to justify its operational secrecy to the public. Therefore while completing its own secret agenda, and remember any useful information must be regarded as an advantage and therefore the possession of such knowledge has an advantage over competitors in other countries, *the issue of honest information was clouded with disinformation*. We are dealing with a leviathan organisation with many facets and many departments and agencies operating on a need-to-know basis and the public do not always get told what they are supposed to be told. The control of information is a very useful tool and certainly one has to look at the timings for the release of information about the possibility of life on Mars with the political agenda that is going on behind the scenes. An awareness of this and an accurate look at the records will confirm these common place suspicions.

I am not a conspiracy theorist myself, in that I am of the persuasion that the human race is actually too inept to produce a useful conspiracy! It is more a *conspiracy of ignorance*, I think, rather than a deliberate one. But certainly certain agencies in power regard the possession of knowledge and its protection from public view as part of their game. It is probably quite fun actually! The X-Files did much to highlight this going on behind the scenes and I often sat in incredulity watching the episodes and wondering how the heck could they air this on prime time

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Never A Straight Answer!

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TV? Because despite changing the names to make the stories *fictional* rather than the *real* from the archive cases it was based on, the program was raising public awareness to the fact that all of this anomalous data existed. For me personally the X-Files were a watershed of disclosure, I was at last able to talk openly about my work without fear of losing my job!

We now come to the original Apollo patch used and developed by NASA as a logo for the Apollo journey to the Moon in the 1960's and we see that it contains not only the Moon and Earth but the letter 'A' superimposed upon the Belt of Orion. As we know, Orion is the Egyptian Osiris and Orion is therefore the prime god of ancient Egypt so the link with the past continues and is overtly displayed for all to see that know. When pointed out at a NASA press review they quickly changed the patch to something a little less overt, but business continued as usual.

Never A Straight Answer!

I had the good fortune to meet Charlie Duke the astronaut and shake his hand on two occasions when he visited over here and I have no doubt that he did actually go to the Moon. But I also think that going to the Moon in the Apollo spaceship was the equivalent of *Three Men on a Bicycle*, for the technology was so primitive and so ephemeral that one could punch one's hand through the side of the lunar module without too much force. One really has to admire the sheer guts and courage of these people who went on this incredible journey into the unknown - a testament to the human spirit, if ever one was needed. It may, however as we will see in another chapter, have been unnecessary. For we may have already had alternative types of spacecraft in operation? But the commitment to a rocket programme was there on public display and therefore could be produced to complete that incredible journey and to fire people's imagination. And more importantly visible proof also of all the tax dollars being spent!

However, due to increased public scepticism we now have the controversy of whether they went to the Moon or not? And certainly when the photographic evidence is analysed, we do see countless anomalies. Shadows are not where they should be, we have a picture of two astronauts allegedly on the lunar surface with two different shadows, which would indicate multiple lighting sources. The explanation for this, I think, is rather embarrassing but perhaps

relatively straightforward and not so much of a conspiracy as people think. With the initial journey, which was very rushed and hurried in Apollo 11, it may have been that time was not allotted to producing cameras that could withstand radiation. Travelling through the *Van Allen Belts* of intense radiation around the Earth has been said by some to mean that it was impossible to go to the Moon because it would simply kill the astronauts as they travelled through it. But if we calculate the speeds and times required the journey time averages out at about 7 minutes, which is an acceptable level of radiation dose, a risk, yes, but a risk worth taking. However, the unfortunate camera with the film that recorded the historic event may have suffered more from the radiation than the human occupants of the spaceship. This act was far more important than planting the flag on Mount Everest, yet when the camera was returned to Earth it may well have been found to contain a completely blank film! Therefore the most important event ever undertaken by humans had no photographic record. Therefore, very hurriedly and embarrassingly, a set of photographs was commissioned from an artificial source to make good the situation. This may account for this controversy?

It may be, therefore, that the photographs after Apollo 11 are accurate, but certainly the Apollo 11 ones may be suspect. Recently NASA were considering publishing a book providing definitive proof that they did go to the Moon, but for some unknown reason withdrew at the last minute - probably not wishing to give credence to the sceptics by actually admitting there was a problem! This is a shame because at last they had a platform to put things right, the burden of proof is still with them, at least until independently verified, so the controversy continues. But there are such wonderful geological features on the Moon worth recording and worth seeing, one has to ask the simple question, *why do we keep seeing the same half a dozen pictures in all the astronomy books?* We are extremely limited as to the number of views of the Moon that we are allowed to see. *Is it all so boring that none of it is worth looking at?* That would be the opinion of perhaps the average member of the public, but certainly, as scientists, we would like to see more images of the fantastic geological craters that are to be found and that NASA probably have in their vaults. This is usually countered with the, only scientists are allowed to see statement or more usually a ridiculous research fee is payable and Joe Public continues to wander around in the dark.

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Recently in 1997 the whole surface of the Moon was mapped by the Clementine space probe. This was a military operation to map the Moon and why the military should be interested is a very simple enough question and the answer is equally simple - the Moon would provide the ultimate military base. A permanently orbiting death star above the Earth would give the military with the *high ground* the ultimate advantage. I think this was seriously considered in the 60's but was abandoned as being not feasible. The reason for this was to do with distance and targeting of the missiles from the Moon. It was considered too far to go. Quite simply, it is far better to have a near Earth orbiting platform to control the population than to go to the Moon. This platform could also be more readily used to go off to Mars, which may be the ultimate prize.

But, Clementine mapped some 1.6 million images of stunning detail down to approximately 1 metre on the surface of the Moon. *It was said that they had posted all of the images for us to look at on the Internet.* Upon investigation though, many people on the Internet found, that there had been many crude attempts to cover-up patches of the Moon's surface with childish cut and paste jobs on various parts to hide anomalous information. One particular frame that I managed to capture from the Internet was at 73 degrees North 238 degrees Longitude and one can see a very amateurish cut and paste job hiding some anomalous feature on the surface. Upon further investigation of the surrounding areas we see vertical smudgings. The vertical smudgings themselves appear like towers or radio masts. Why do they need to smudge out normal parts of the Moon unless there is some anomalous piece of information there to hide?

All this leads to the conspiracy theory accusation. If we look back to some of the other work including that of the Mars Mission, plus the work of Russian astronomers, which we now have access to after the fall of the Berlin Wall and the collapse of the old system in the Soviet Union, we see that the Russians captured very early on pictures of large towers on the surface of the Moon. Several of these towers were measured to be 7 miles high with the average at 1 to 2 miles high. Certainly NASA themselves captured an image of an object called '*the shard*' by Richard Hoagland which was an impressive 1? miles high raised up above the lunar surface. There should be nothing 1? miles high raised up above the lunar surface. It is complete anomalous and unexplainable in conventional terms.

Richard Hoagland went on with the Mars Mission and then later the Mars Moon Mission to analyse these images and to claim that they were glass-like in structure made of tetrahedral designs. In fact that these large towers may also have been enclosed in a 30-mile high geodesic dome. Interestingly glass is found to have the structural strength of steel in a vacuum and is certainly easy to make from Moon dust, so the idea is not so off the wall as we would think. Certainly - *whatever happened to Surveyor 4* - annoys NASA intensely, especially if you ask them directly the question, "Whatever happened to Surveyor 4?"

Surveyor 4 was approaching the Moon to land just like Surveyor 3 to take pictures of the Moon's surface, but was suddenly cut off in descent to the Moon at about 30 miles altitude. Something happened to Surveyor 4 just 30 miles above the Moon, when all of a sudden it suffered catastrophic destruction and the signal was cut immediately. Did it crash into a dome-like structure or the remnants of a dome-like structure above the surface? Was that in fact why Surveyor 4 was going to that particular area to map the surface? But if we do consider these artificial structures on the Moon as demonstrating habitation, this habitation was billions of years ago, not just millions, but maybe billions of years ago. Therefore the shattered remnants of this civilisation may only be just a trace in the dust. Certainly, the cratered pock marked surface of the *far side* of the Moon would indicate that should the object have been shunted through space the forward side of the Moon would have hit more astronomical debris such as meteorites and asteroids than the near side of the Moon. The sparsely cratered smoother surface of the *near side* of the Moon with its large areas or *seas* as they are called, would tend indicate the upwelling of fresh material onto the surface of the Moon. The observation that these areas have only been lightly cratered perhaps since insertion into Earth orbit 597 million years ago would tend to suggest that this is all fairly recent in astronomical terms. Could there be a mechanism for hollowing-out the Moon, literally melting the central part of the Moon and expelling it to the surface to produce some sort of habitable area in the hollow structure underneath? We know from records, both official and unofficial, that the astronauts progress to the Moon in the epic Apollo missions from 11 through 17 was monitored very closely by what we would term as Unidentified Flying Objects. Did they operate from this habitable area? Certainly *their* interest has been maintained continuously until the present day in all

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things to do with our exploration of space, which would suggest that these craft operate from a location near by.

But why then should all this be so important? Well, I think it impinges upon the very nature of our humanity as creatures of exploration, as questing conscious and sentient beings that there is some greater picture to be observed than from what we observe every day. By putting together the pieces of the jigsaw over a wide variety of disciplines and collecting anomalous information of all sorts over the last 20 years I have found an overall pattern has developed. It is an extremely complex pattern and is to do with just who we are and what we are.

It is over the next few chapters that I hope to demonstrate the different threads of this amazing tapestry of information which lead to a new understanding of just who and what we are and our place in the Universe. Essential to the understanding of this is the precise mathematical nature and the interlinking of information that is to do with our beautiful planet and its associate moon. It may be that this sacred ratio is echoed in all forms of our art, mathematics and literature. Certainly, with my investigation of the crop circle phenomena I have found a very definite concrete link between *the squaring of the circle* geometric 11:3 ratio and several of the major crop circle formations of 1988. It is therefore one of the gifts of mathematics to humanity that knowledge of this ratio 11:3 should rate alongside that of knowing of *Pi*, *E* and *Phi* together with other such esoteric markers of human achievement including the discovery of sacred geometry, fractal mathematics and chaos theory.

The journey we are embarked upon will hopefully continue to enlighten, intrigue and entertain the reader. This occulted information, technology and knowledge is the birthright of every human being not just the chosen few. The Universe may be a mystery, but it shouldn't be a secret. One merely has to ask the correct questions to find the correct answers, *for we swim in a sea of answers, but just do not know what the questions are*. Education is everything. Yet, the average person is often distracted with all forms of entertainment, bright lights, advertising, radio/television bombardment of information/misinformation, disinformation, anything to distract one's progress from the real path of development. Traditionally that development was considered spiritual and the province of religion and the organised church, but with the advent of this new age of enlightenment it is no longer the exclusive

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privilege of these organisations to consider the questions of spirituality
it is time for science to get involved.

Chapter Six

The Earth Energy Grid

Just as we have seen in an earlier chapter, the whole Universe contains a sub-quantum grid of floppy, rising waves of energy, all inter-linked and inter-connected, making the Universe one whole. This grid gives rise at a macro level to areas of potential where fluctuations in the wave forms give rise to matter. The nesting *particles* of energy termed light by the ancients, but termed quarks by modern physicists are really just waveforms that produce the illusion of *solid* matter - this is the key to understanding everything; all matter consists of waves. This matter then coalesces into larger aggregates such as planets, moons, stars, galaxies, super clusters, and so on. But the same geometry that we have learnt so far is in play, albeit invisibly, in our own backyard for when we look at the Earth, which is our home, we are inexplicably linked without knowing to the *Earth Energy Grid*. It is thought that all life forms are linked to this Energy Grid, which is linked via the Sun to all other stars, planets and matter in the Universe. This really is like a super-highway of potential for inter-connectedness. You could call it the 'interspatial matter outernet' or just plain *Outernet*.

The Grid itself, if we first of all start to look at the structure, is composed of various geometric shapes. We have already familiarised ourselves with the five regular Platonic solids and in fact these come into play. Russian workers in the early 60's were the first to note that particular areas of the Earth were more active than others with regard to unusual phenomena. They plotted the areas concerned and being that they already had atomic technology, they must have already known about the Grid from that, for it is impossible to explode atomic weapons without knowledge of the hyper-dimensional sub-quantum Energy Grid.

On a small piece of paper in the back of a book, I saw as a small boy a very loose, rough map of the Earth spread out in the mercator style

showing large areas delineated in the forms of pentagons, twelve in number. As the map was flat I was not sufficiently advanced in my intellectual faculties to realise that it was a three-dimensional ball-shape and that therefore the shape I was looking at was a dodecahedron. It would be very nice in life if we all had teachers who came along and pointed out the blindingly obvious to us at certain points of our existence, but unfortunately that very rarely happens!

The Russians were, therefore, aware that a dodecahedral structure existed with major lines of energy connecting major points on the Earth's surface. These major lines were thought to have unusual occurrences, to be responsible for earthquakes and things like that. This was in the early days when tectonic plate theory was in its infancy and people thought of the Earth as being more solid than it actually is.

Nothing more was said of this and gradually I pieced together evidence on my own from books and research. But, then I chanced upon a video, which contained a talk by the New Zealand airline pilot, now retired, Bruce Cathie. Bruce Cathie's story is quite a fascinating one and opened up my eyes to the potential of the Grid. I was enthralled by the video presentation of the lecture at the UFO conference in Australia. Bruce Cathie resides in New Zealand and his story goes thus, in abbreviated form.

Bruce Cathie was a pilot working for New Zealand Airlines, flying mainly freight in the 60's. He was flying routine freight line journeys, much as a truck driver on the roads, and as with all pilots he noticed some strange aerial phenomena, notably now labelled UFO's. UFO's are exactly what they say they are quite simply - *Unidentified Flying Objects*, no more, nor less and we will discuss UFO's in the following chapters.

He noticed that these phenomena were real and that he wasn't seeing things but, being rather cautious, and not wishing to lose his job, he didn't wish to report it to the airlines; so he just made a careful note of his observations. All this, by the way, can be read in his books, which are many, very interesting and well worth reading.

He, being of a mathematical persuasion, decided that he would apply his analytical brain during his off-duty hours to see if there was any connection between the UFO appearances and disappearances over New Zealand and the map. On plotting the UFO appearance and disappearance positions he noticed a pattern starting to emerge. The UFO's would appear in certain places and disappear in other places with some regularity. He then hit upon the idea of drawing a grid onto the

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map of New Zealand to see if there was any correlation and sure enough, he found that there was. Then, with this newly discovered tool, he was able to predict, which was an important piece of science, from his theory where these UFO sightings would occur. He also noticed that there was a correlation between time and place according to the position of the Sun and Moon, which gave him an insight into the exploding of atomic weapons. Windows of opportunity would open and close as if by magic, but with his newly acquired knowledge and the decoding of the spatial and temporal units into *grid arc minutes/seconds* his results became stunningly accurate. He then extended his research into looking at all sorts of unusual occurrences both past and present. A pattern emerged that his keen brain could process into a global view.

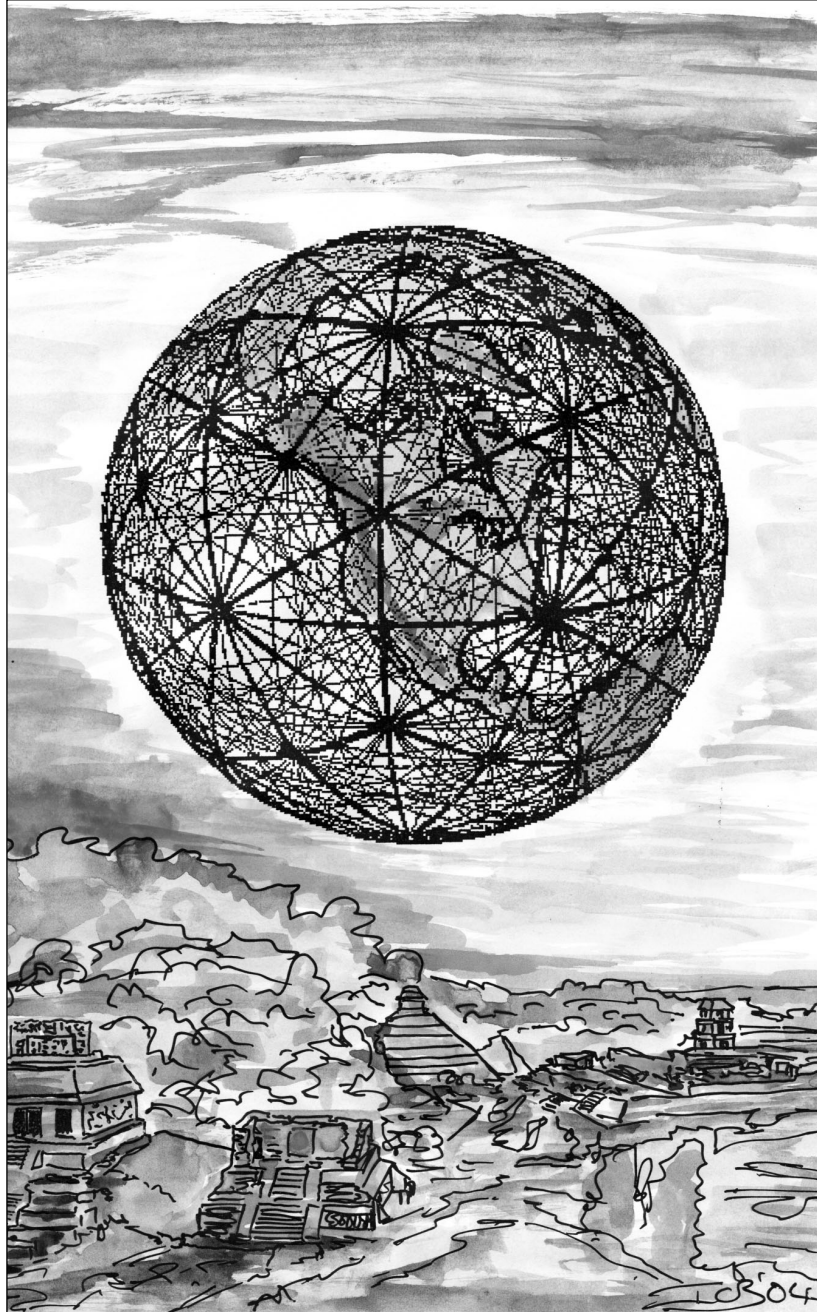
To give you an idea of how tricky this process was to predict time and place we can compare it to quantum physics. In a quantum event, we cannot predict both things. When we look at a quantum particle or quantum event such as an electron we can predict its position, but then we can't predict its speed. Or we can predict its speed but then we can't predict its position. We seem to be incapable of doing the two. This also seems to apply to our prediction for variables to do with unusual phenomena.

He then had a tremendous insight and decided to extend these *gridlines*, as he called them, to encompass the globe. He drew them first with a pen on an old school globe that he managed to acquire and later refined his model with more data input. Finally he noticed that these energy tracks went through many important sites such as, major sites of sacred interest, geological features and geographical monuments. He therefore started to formulate an idea of an *energy grid that encompasses and penetrates the whole of the Earth* and this has now been formally refined into *Grid Theory*.

Earth Energy Grid

His other principal interest was the prediction of atomic bomb tests and he very quickly realised very early on that the scientists were using harmonic resonance and an attunement to the Grid to detonate atomic bombs. He then realised quite simply that the hundred thousand odd people working on the Manhattan Project in 1942 previous to the explosion over Hiroshima in 1945 had been calculating vast quantities of handwritten mathematical data to calculate the exact time and place to explode the atomic bomb. He very quickly grasped what was going

Ian C Baillie



Earth Energy Grid

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on and produced vast, endless, long tables of geometric harmonics, which his brain coincidentally revelled in and therefore was able to predict with some certainty when and where nuclear tests would occur. One can therefore state that places like the Nevada desert, where the US government has exploded some 200 atomic devices in the last 50 years, is on a *prime harmonic site*, which is a rather good place to test explode atomic weapon with some regularity. On a poor site the atomic weapons would probably not work and with much less operational frequency - not so good for a test program! *This therefore has to be one of the biggest bluffs of the 20th century, the fact that atomic weapons thought to be all so powerful do not work very well on random targets whenever or wherever, thank goodness!*

As Einstein had indicated earlier on, the final unravelling of matter to produce it back into primal energy is a geometric reaction at a sub-atomic level. And in order to facilitate this geometric reaction the bomb must be detonated at exactly the right place on the Earth's surface and to within a very precise window of opportunity using a time frame of no more than 5 seconds. The Sun has to be in precisely the right position and the Moon has to line up as well, because the Sun and the Moon influence the geometry of the Energy Grid.

The bomber crew of the *Enola Gay*, the B29 super fortress that was used to drop the first atomic weapon at the closing of World War Two, was trained extensively over the nine months preceding the attack. Incredibly, they had to drop the bomb from an altitude of 29 000 feet to hit a target 100 foot circle on the ground and to do this within a precise 5 second time frame window! No wonder they trained relentlessly to be able to achieve this from such high altitude. The timing had to be absolutely crucial, hence the use of a retardation parachute, for otherwise the bomb would not work. A dirty explosion or at worst failure would occur if for any reason they were just slightly outside these parameters. This means that less or no atomic material is deconstructed into pure energy and therefore there is much more radioactive pollution: this is called a 'dirty nuke'. A clean nuke would be a good detonation with a massive yield of energy, but even so we are talking of perhaps only 5% of the atomic matter being converted into blinding white light, radiation and heat.

We are still living with the radioactive fallout from the many bomb tests of the 50's and 60's, especially the air burst weapons that were perfected then. This along with several other factors may be responsible

for radioactive material entering the global food chain and may account for such things as a rise in breast cancer since that date. The link is tenuous due to lack of data and requires much research, but certainly other factors like increased levels in pesticides have been reduced, yet this problem still occurs with increasing frequency. Some long-term agent must therefore be responsible and as with the fall out from Chernobyl, radioactive Caesium is known to be much more persistent in the food chain than was first thought of. Of course it is in every Government's interest to keep this a secret in order to prevent massive compensation claims. A very obvious link to the *cattle mutilation phenomenon* in America can immediately be seen!

Nowadays I assume that the modern atomic weapons are more efficient and much cleaner and therefore the yield of pure energy is far greater. But, as with any technology, the fallout of the radioactive fission material elements causes much more of a problem than is desirable for a weapon. Interestingly, the detonation of a nuclear weapon may also be a multidimensional event, in which case intelligent life forms sharing the same state space as us would get pretty fed up with us to say the least! They would therefore turn up pronto to stop their rowdy neighbours (us) from doing this - much as tenants in a block of flats, to use a common analogy. With the advent of video footage of *rod like creatures* existing at much higher frequencies than the human eye can detect and with the continuous UFO monitoring of atomic missile silos and test sites for the past 50 years this thought cannot be dismissed out of hand. We must therefore become responsible citizens in our rapidly changing universe.

The first bomb on Hiroshima fell within the target zone and detonated correctly. It was just within the zone, but it worked. The second bomb on Nagasaki, which was dropped on the civilian quarter rather than the military target was precisely on target and on time and produced a much better yield. And it was, as the pictures afterwards witness, horrendous. The energy firestorm completely decimated 3 square miles at ground zero. The Japanese buildings being mainly made of wood caught fire and disappeared along with the people completely vaporised. The one or two buildings seen in the photograph still standing are the only brick or concrete structures that were in the vicinity.

The nuclear age had dawned and along with it the hidden energy of Pandora's Box had been released into the world. It is no coincidence

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therefore that the UFO phenomena began officially in 1947 (Nineteen point four seven = nineteen point five!), just after these events, for tampering with the earth energy grid is tampering with life itself. Workers such as remote viewers who have since 1945 attempted to *see* the events of the atomic bomb unlocking, find that as they are watching the event unlock inside the bomb, at the precise date and at the precise point of detonation when explosive charges propel the two masses of fissile material together to make a critical mass of radioactive material that causes a chain reaction, they are jerked back as though on a large bungee rope to a distance of some 25 or 30 miles from whence they witnessed the explosion, rising into the air in the familiar mushroom cloud.

There seems to be some safety mechanism at work in the universe to stop remote viewers viewing an atomic explosion directly. It has been conjectured by various people, and I tend to support this idea, that perhaps the vaporisation of matter rips a hole in the grid and this is therefore a multi-dimensional event and that not only are people physically extinguished, but also their soul memories are extinguished. So we are left with the conclusion that perhaps there is a basic law of universe being transgressed here. Physical death is one thing, but to annihilate a person's soul memory, all the stored, collected experiences of that individual's piece of consciousness, is unacceptable - seems reasonable!

To reiterate, it may be therefore due to this extreme condition that UFO's and their occupants turned up to tell the human race not to do this. A multi-dimensional event would reverberate and affect throughout the layers of matter visible and invisible. Therefore inhabitants of the invisible part of the universe would be affected in the same area as inhabitants in the visible part. For our community on Planet Earth is a little more complex than we imagine. Basically, the bomb would upset other people on other TV channels and therefore they turned up to tell us to stop it!

One can therefore see during the Cold War era that nuclear submarines were busy steaming around under the seas to various positions to avoid detection. And that at any one point should war be declared then the pre-calculated books of tables would have to be withdrawn from the safe on the submarine or from earlier on the SAC bomber command safe on the airbases for the target reference co-ordinates. The code books would be consulted as to the positions of the

targets and to the precise timing when the aeroplane or the missile hit the target with its payload. Only those targets would be available. Therefore the targets that would be best chosen were perhaps not always the targets that would be easily available. Equally, the opposition, in this case the Russians compared to the Americans, would be able to calculate ahead of time which of their cities would be most vulnerable to attack at any one point in time, correct to within one or two seconds. They would therefore be able to calculate and pre-empt any attack at any particular time on those cities.

So an anti-missile defence system arose, which was specifically targeted and mobile, to avoid any attack. It became a Mexican stand-off with two macho gunmen holding loaded weapons at each other, both knowing precisely when and where the trigger could be pulled and therefore able to avoid it, thank goodness!

The world was very nearly plunged into total nuclear chaos at least three or four times during the cold war, when we came very close during the 60's to the 90's to having global nuclear conflict. With the advent of multiple warheads one can see that each side was merely increasing its probability of hitting a target. Should all the warheads have been fired randomly none if any would actually have worked. To saturate a target with 20 to 30 small warheads would give a much higher potential of an explosion than just one warhead. An estimate of perhaps 10% is a fair estimate for the percentage of warheads that would actually explode during a nuclear exchange. This, however, would have been far more than enough to cause total devastation to the countries' concerned. Therefore the super powers were quite happy to limit their arsenals before maverick states and terrorists got hold of the same sort of weapons.

At the peak of the arsenals the Americans had some 9,000 nuclear warheads and the Russians some 7,000. The material for these warheads was produced in fast breeder reactors as uranium was found to be a rather poor source of nuclear warhead materials and the newly produced plutonium far superior. Warheads as small as 1 kilogram were developed. Nuclear proliferation became a global nightmare, which continues to the present day. Whilst the larger traditional powers, France, Britain, America, Russia and China, had access to nuclear weapons, the ball game was fairly predictable. But with the advent of *smaller* countries such as South Africa, Israel, Pakistan and India, the game became much less predictable and the possibility for catastrophe

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ever more present. As we have recently seen with the stand-off in Kashmir between two nuclear armed powers, both are aware of the energy potential that they can release and both having knowledge of the grid. Emotionally unstable people are quite dangerous, especially when armed with nuclear weapons - time for a ban!

Fortunately for the rest of us, terrorists have not been able to work out the intricacies of exploding a nuclear weapon. They probably have had a very good try at gaining the material and putting the material together, but lack the intelligence and information to tune the bomb so that it explodes according to the harmonic grid. Bruce Cathie himself was approached by elements of the American Secret Services who wished to buy his silence, but luckily for the rest of us, he decided that he would carry on going his own way and not be bought out.

The Grid, therefore, is a very real phenomenon and is understood at the highest levels of science. It is an interlocking energy mesh of potential. If we view it as a slightly more complex model (this was presented in a video presentation by Dan Winter) *an interlocking icosahedron and dual dodecahedron produce a geometrically perfect form of grid energy pattern of this planet*. Our aim, as grid engineers, or galactic gardeners, should be to try, like our ancestors, to reinforce this grid and to make the grid a healthy stable whole again. At the moment the grid is very tatty and falling more into chaos as we pollute in ignorance with a total disregard for the planet. We are destroying the environment and destroying the grid too. In fact, operations such as HAARP are, or may be, a deliberate attempt to manipulate the grid energies in a negative way, thus causing irrevocable damage to our planet.

So, the interlocking icosahedron and dodecahedron grid form is the ideal and very quickly when one makes a model of this, as in the illustration, one can see that most of the world's sacred sites, if not all of them, occur on major junctions of the grid energy lines. These are like super conductors of energy and information, which are intersection points for consciousness and therefore very powerful. It is not lost on the military and the atomic bomb testing authorities, that sacred sites would be good potential sites to test nuclear weapons. This, therefore, accounts for why the British managed to throw the Aboriginal inhabitants of Australia off the Maralinga sacred site in order to test nuclear weapons. In the 50's and 60's they simply wired it off and stopped the Aboriginal people from crossing the sacred site. They had a tendency to go on walkabout and follow the dream lines and the dream lines coalesced at

this major sacred site in Australia. For politics sake it would have been much better just to go down the road to test A bombs, but of course, as we know now, it is much easier to explode the weapons on a sacred site. This has now been finally set right with the *South Australia: Maralinga Tjarutja Land Rights Act, 1984* and the land has under gone and extensive clean up operation.

It is very much like the nodal junctions of the nervous system in the human body and exploding an atomic bomb is the equivalent of shoving or sticking a large pin or needle directly into those sites. It makes the earth shudder. Also, several articles have been produced showing that earthquakes occur at other sympathetic points where the intersection of the geometry occurs. One theory in physics shows that where two waves come together in *constructive interference* we end up with a massive wave. Therefore, these waves would circulate through the crust and crash together to produce very real material effects, causing among other things massive earthquakes. This was self evident from the Chinese earthquakes that occurred after the last series of French tests in the South Pacific when some half a dozen warheads were exploded. Examination of the grid model shows clearly that the epicentre was directly on an energy line to the French site.

How do we as people relate to the grid? Alfred Watkins was perhaps the first person in relatively modern times, the late 1800's, to realise from his walks around the United Kingdom that many sacred sites, churches, monuments, villages, etc fell on straight lines. He titled his book *The Old Straight Track* and this is in fact the first modern re-emergence and the beginnings of our new awareness of the grid. Human consciousness interacts with the grid. It is a basic function of all life forms to be tuned to the Earth Energy Grid for it gives them an advantage in drawing the vital force needed for life. The Far Eastern people term this form *chi*, the all-pervading energy that is drawn to points and needs to be circulate in order to facilitate a healthy body. The healthy body extends to the Earth, for all things are fractal based and therefore occur in exactly the same patterns, but at different levels. So the Earth is like a human body, just as the Universe is like a human body. All things are one.

Our early ancestors were inspired to build sacred sites. Many of these sacred sites are built exactly on ley lines - the points where ley lines cross seem to be particularly strong siting points. Very often if we plot ley lines

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we see them as straight lines on a map, but in actual fact we are looking at a shadow projection of a hypersphere. For the shadow projection of a hypersphere into three dimensions is that of a ring doughnut! It is a toroidal wound doughnut of energy that appears to us as straight lines on 2D maps or the planetary surface. We are not dealing with just simple Euclidian geometry here, we are dealing rather with higher dimensional geometry. The wound toroidal doughnut appears as straight lines to us on the surface of the 3D globe, but really we are living within the confines of a *hyper energy fluid*.

Energy lines intersect at sacred sites. Humans were moved to express abstract concepts of consciousness and interconnectedness by the building of stone rings and Neolithic monuments. The early 'Neolithic' burial chambers and birthing chambers together with monuments can be seen as cosmic markers delineating the energy of the land. It may be that the shaman of the tribe, when taking various hallucinogens such as magic mushrooms, would have experiences that allowed them to perceive these energy lines probably in mental day-glo colour projections and therefore they would direct the rest of the tribe to points of importance. These points included tops of trees, rocks and sources of water; water, being the analogy of blood in the body, water is the blood of the earth, water would vortex the energy and create powerful energy points; large rock formations would act as natural pyramids and focus the energy. Mountains always have a spiritual feel to them because really they are natural pyramids and focus this spiritual energy. New York buzzes with energy, Cambridge in the UK doesn't - New York contains artificial pyramid tower like structures, Cambridge doesn't it's flat!

I have often said that one meets and communes with the Universe, with God if you like, or the Matrix, whatever one wishes to term it, in a garden at dusk or at dawn. That is when you are closest to God. I was gratified to realise when I visited the *Glastonbury Crop Circle Symposium 2001*, that one of the speakers gave the mechanism for this. That as the sun rises a tidal wave of energy bursts forth across the surface of the planet towards the viewer. This profound burst of energy has a very spiritual, connecting quality, which resonates with the consciousness within the viewer. He also went on to say that barley, which has antennae-like projections, resonates with this shock wave and that barley can only become fertile at dawn or at dusk when the resonance occurs with the energy wave. It is like a bow shock wave from the sun. So, really

I was right in my theory. It's quite gratifying to find out something new that confirms old ideas!

Humans would have had profound experiences at these particular sites and these sites would have been much venerated and therefore reinforced with first of all wooden temples, pre-megalithic structures, which were later reinforced in stone so the *woodhenges* gave way to the *stonehenges*. The moon was also considered very much part of this natural grid interaction and the solar/lunar cults became the most important thing in man's Neolithic world. The roll right stones demonstrate this knowledge. The central altar stone between two uprights combined with the knowing of the 19-year cycle of the moon, such that every nineteenth year the moon appears at its lowest on the horizon and appears to roll across the stone between the two uprights. This would have been a magical point for our ancestors to witness every 19 years. But, knowing our luck in this country, it was probably foggy or cloudy that night, which would be a bit unfortunate, still our ancestors persevered!

The site in Stonehenge is on a massive correlation of ley lines. There are some 12 energy lines that all meet up and connect at Stonehenge so we see that the site at Stonehenge is no accident. It is very much, one can almost visualise, as the power socket of the planet and the inter-dimensional gateway into and out of our grid. Therefore the whole thing is a doorway to the universe. As such our ancestors toiled to reinforce their primitive rings with large, stone monoliths of some 30 tons. Such was their reverence for this power and rightly so, for it is the power of life. It is what enables life to defy the laws of physics. Physicists have conclusively proven through the laws of entropy that life is impossible, yet we see life all around us. The natural tendency is for things to have a lot of energy and to dissipate to no energy. Life goes against the grain. We have a sperm and an egg and it grows into a human being, which then evolves from a child to an adult against the tide. The energy for this does not just come from chemical food.

I then began to understand why people eat lettuce, because one is not only eating chemical food, of which there is very little value in a lettuce, but one is eating physical energy, the life form energy. One could say it is vegetarian vampirism! We are absorbing the life force of another organism to sustain our own. Therefore, food degenerates in energy; fresh food is better, organic food has more vibrational energy than

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bland, produced farm food. So we see the interconnectedness of all things with the Grid.

The sacred sites gave way to the great Norman cathedrals and churches in the early medieval phase of our history. People were still doing exactly what our ancestors did, to build in stone, monuments on these very sacred sites. When one looks at a cathedral, especially Salisbury Cathedral with its large pointed spire, or Gloucester Cathedral, one can see the whole edifice as a stone transmitter with a large skyward pointing mast transmitting people's prayer into the universe, directly injecting thought into the Grid. And early religion knew the value of this and how to do it properly. If we look at the Tibetan monks, they are very aware of the Grid and how to interact with it through meditation. It is no coincidence that they live in Tibet, which has the highest mountain range on the Earth and therefore the biggest natural *pyramids* on the Earth.

Unfortunately the congregation had lost its way a bit and the priesthood would try to get the congregation to pray and to adopt the correct ritual positions to attune the skeleton of the body so that it best affects the distribution of the prayer energy or meditative energy. Really, when one looks at our own skeleton it is like a radio or TV aerial, with our chest cavity and skeleton ribs, and by adopting various ritual positions we tune the aerial to make the signal more effective. Unfortunately in Western culture the art of this has been lost and merely comprises of people guessing at what they are doing. But, as with the re-emergence of past knowledge, we are now starting to understand how once again to do this properly and therefore build a useful technology with which we can sustain ourselves in the future. Man shall not live by bread alone and therefore we have to develop our spiritual aspect fully.

In some ways we see a re-emergence of this at the moment. All the knowledge recorded in this book is a product of the rediscovery of the past. If we go back to Pakistan and India there is evidence to show that there was once a nuclear war in that part of the world. This may have been some 15,000 years BC. The Sanskrit writings tell us of the Rama Empire, the empire of the seven cities and of the princes that ruled it. It also tells of the terrible weapons and technology they used, for it mentions Vimana flying boats, which were light constructions most magical to look upon, that worked on humming and used hot mercury and iron engines (monatomic superconductors?).

Bruce Cathie has looked at the harmonics of mercury and iron and

found an interesting, interconnected relationship between the geometric harmonics of the two elements and that using vibration it would be possible to release large amounts of energy from the mercury with fins of iron immersed in it. These vibrating fins would resonate at precise frequencies and unlock the energy. This may well be the technology they were using, but certainly they had weapons of mass destruction. It is recorded that they had a Brahma weapon. The Brahma weapon was described as a great projector and that the enemy army would have this beam projected at them, which would cause them to boil and to die in vast numbers. Their only hope of escape was to discard their armour and to dive in the nearest water or river.

At the time when I read this description in the 60's it didn't make a lot of sense to me, was it like a giant ray gun? But with the advent of the microwave oven we can see straightaway that if we place a metal object in a microwave oven it causes sparks and heating and will either break the microwave or the contents will glow red hot. So it is quite possible that the Brahma weapon was in fact a microwave projection device and that the only hope of humans, who are made of three quarters water, from boiling away was to dive in the local river after discarding all metal objects in order to survive. The microwave energy would have been dissipated into the volume of water flowing in the river.

A yet more terrible weapon was the Indra dart and the Indra dart is described as being a bright and terrible missile, where the explosion would give the rising flash of many suns and annihilate all who looked upon it. Many days later people's hair would fall out and they would appear with boils and sores. This really is a perfect description of a radioactive atomic bomb with its associated fall-out. Those not vaporised instantly when the initial impact at ground zero occurs would suffer terrible radioactive injuries over the coming weeks and months.

MAHABHARATA, picks up the thread of a tale of devastation and destruction. *Atlantis, rather displeased at its humiliating defeat, deceived that they were no longer interested in subjugating the Rama Empire (An Indian Empire), and decided instead to annihilate the major cities using weapons of mass destruction.* Sanskrit scholars could not comprehend what was being described in the Epics until the dropping of the first atomic bombs on Japan. These are authentic verses from the Indian Epics:

"Gurkha, flying a swift and powerful vimana (fast aircraft) hurled a

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single projectile (rocket) charged with the power of the Universe (nuclear device). An incandescent column of smoke and flame, as bright as ten thousand suns, rose with all its splendour. It was an unknown weapon, an iron thunderbolt, a gigantic messenger of death, which reduced to ashes the entire race of the Vrishnis and the Andhakas. The corpses were so burned as to be unrecognizable. Hair and nails fell out; Pottery broke without apparent cause, and the birds turned white. After a few hours all foodstuffs were infected, to escape from this fire the soldiers threw themselves in streams to wash themselves and their equipment."

The Mahabharata and this story are said to be nearly 24,000 years old! If this is true then we are not the most advanced civilisation to have existed. As the Bible says "There is nothing new under the sun." Evidence for Atlantis is well documented. If the above was not enough to convince you let me take you deeper into this *nuclear war*:

"It was a weapon so powerful that it could destroy the earth in an instant a great soaring sound in smoke and flames. And on its sits death."

The Ramayana states "Dense arrows of flame, like a great shower, issued forth upon creation, encompassing the enemy. A thick gloom swiftly settled upon the Pandava hosts. All points of the compass were lost in darkness. Fierce wind began to blow upward, showering dust and gravel. Birds croaked madly and the very elements seemed disturbed. The earth shook, scorched by the terrible violent heat of this weapon. Elephants burst into flame and ran to and fro in a frenzy over a vast area, other animals crumpled to the ground and died. From all points of the compass the arrows of flame rained continuously and fiercely. The Mahabharata and the Ramayana may seem like science fiction, but they do have an unsettling eerie ring of true to their graphic descriptions.

Did aircraft exist such as Vimanas and Vailxi (as the Atlantian craft are called) and did these civilisations possess nuclear weapons? The choice is yours to make. Certainly there seems to be a fear of educating the world's people about the distant past. In order to control many societies have in the past destroyed their own and other peoples' history in such a way that records of their amazing cultures and events are nearly all wiped out. The Indian Epics are largely still with us intact, but sadly records of South American history all but gone, destroyed by the zealot vandals of the Catholic Church. Fear and other factors have removed most of the history before 5,000 years BC and some from other non-

Christian cultures from only 1,000 years ago. In the America's it is from just 300 - 500 years ago, all lost!

Today, perhaps some UFO records too are going the way of fears gate? However, again a few stories live on. In another amazing Indian text the Agastya Samhita (Indian Princes' Library) gives the precise directions for constructing electrical batteries:

"Place a well-cleaned copper plate in an earthenware vessel. Cover it first by copper sulphate and then moist sawdust. After that put a mercury-amalgamated-zinc sheet on top of an energy known by the twin name of Mitra-Varuna. Water will be split by this current into Pranavayu and Udanavayu. A chain of one hundred jars is said to give a very active and effective force."

By the way, as if you haven't guessed already, Mitra-Varuna is now called cathode-anode, and Pranavayu and Udanavayu are to us oxygen and hydrogen. This document again demonstrates the presence of electricity in the East, long, long ago. In the not so distant past strange events are recorded in Europe. At Mount Cassino in Italy there is a large and heavy stone, which was traditionally lifted by Saint Benedict (AD 448-548) by the neutralisation of gravity. This stone was intended for the wall of the monastery being built at that time. The stonemasons could not budge it. However, Saint Benedict made the sign of the cross on the block, and while the seven men who could not lift it looked in amazement, he raised it alone without any effort. If this is true, then it's evidence of God's hand at work or perhaps just secret technology. Even stranger is this: King Ferdinand I was a host to Saint Francis of Paula (1416-1505) in Naples. Through a half-opened door he witnessed the monk in meditation, floating high above the floor of his room. Again in the fairly long ago past in China Emperor Cheng Tang (1766 BC) ordered Ki-Kung-shi to construct a flying chariot. The primeval aviation constructor completed the job and tested the aircraft. In flight, reaching the province of Honan. Subsequently, (from fear) the vessel was destroyed by Imperial edict, as Cheng Tang feared the secret of its mechanism might fall into the wrong hands.

If one looks at the past we can foresee and even change the future. Will we ever come to a full all out Nuclear War as the people of Atlantis and Rama 24,000 years ago? Will we build Flying Chariots (Flying Saucers) and destroy them, because we fear into what hands they will fall? What will man do to destroy his past, present or future? Do we get the feeling that we have all been here before?

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I heard a couple of years ago that they had found radioactive skeletons in that part of India and that they had also uncovered tram tracks of iron showing that an advanced civilisation may well have destroyed itself as per the Sanskrit writings. But as of yet I am still trying to track down these sources for this information and to verify the story. It is very important to follow leads and to verify what one has heard. It is good to research- try it!

Update:

ANCIENT CITY FOUND,
IRRADIATED FROM ATOMIC BLAST

Radiation still so intense, the area is highly dangerous

A heavy layer of radioactive ash in Rajasthan, India, covers a three-square mile area, ten miles west of Jodhpur. Scientists are investigating the site, where a housing development was being built.

For some time it has been established that there is a very high rate of birth defects and cancer in the area under construction. The levels of radiation there have registered so high on investigators' gauges that the Indian government has now cordoned off the region. Scientists have unearthed an ancient city where evidence shows an atomic blast dating back several thousands of years, or more accurately from 8,000 to 12,000 years, it destroyed most of the buildings and probably a half-million people. One researcher estimates that the nuclear bomb used was about the size of the ones dropped on Japan in 1945.

Archaeologist Francis Taylor says that etchings in some nearby temples he has managed to translate suggest that they prayed to be spared from the great light that was coming to lay ruin to the city. "It's so mid-boggling to imagine that some civilisation had nuclear technology before we did. The radioactive ash adds credibility to the ancient Indian records that describe atomic warfare."

Construction has halted while the five member team conducted the investigation. The foreman of the project is Lee Hundley, who pioneered the investigation after the high level of radiation was discovered.

There is evidence that the Rama empire (now India) was devastated by nuclear war. The Indus valley is now the Thar desert, and the site of the radioactive ash found west of Jodhpur is around there.

When excavations of Harappa and Mohenjo-Daro reached the street level, they discovered skeletons scattered about the cities, many holding

hands and sprawling in the streets as if some instant, horrible doom had taken place. People were just lying, unburied, in the streets of the city. And these skeletons are thousands of years old, even by traditional archaeological standards. What could cause such a thing? Why did the bodies not decay or get eaten by wild animals? Furthermore, there is no apparent cause of a physically violent death.

These skeletons are among the most radioactive ever found, on a par with those at Hiroshima and Nagasaki. At one site, Soviet scholars found a skeleton which had a radioactive levels 50 times greater than normal. Other cities have been found in northern India that show indications of explosions of great magnitude. One such city, found between the Ganges and the mountains of Rajmahal, seems to have been subjected to intense heat. Huge masses of walls and foundations of the ancient city are fused together, literally vitrified! And since there is no indication of a volcanic eruption at Mohenjo-Daro or at the other cities, the intense heat to melt clay vessels can only be explained by an atomic blast or some other unknown weapon. The cities were wiped out entirely.

While the skeletons have been carbon-dated to 2500 BC, we must keep in mind that carbon-dating involves measuring the amount of radiation left. When atomic explosions are involved, that makes them seem much younger.

Interestingly, Manhattan Project chief scientist Dr J. Robert Oppenheimer was known to be familiar with ancient Sanskrit literature. In an interview conducted after he watched the first atomic test, he quoted from the Bhagavad Gita: "'Now I am become Death, the Destroyer of Worlds.' I suppose we all felt that way". When asked in an interview at Rochester University seven years after the Alamogordo nuclear test whether that was the first atomic bomb ever to be detonated, his reply was, "Well, yes, in modern history."

Ancient cities whose brick and stonewalls have literally been vitrified, that is, fused together, can be found in India, Ireland, Scotland, France, Turkey and other places. There is no logical explanation for the vitrification of stone forts and cities, except from an atomic blast.

Another curious sign of an ancient nuclear war in India is a giant crater near Bombay. The nearly circular 2,154-metre-diameter Lonar crater, located 400 kilometres northeast of Bombay and aged at less than 50,000 years old, could be related to nuclear warfare of antiquity. No trace of any meteoric material, etc., has been found at the site or in the

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vicinity, and this is the world's only known "impact" crater in basalt. Indications of great shock (from a pressure exceeding 600,000 atmospheres) and intense, abrupt heat (indicated by basalt glass spherules) can be ascertained from the site.

A warning from history not to be taken lightly especially with tensions rising on the Kashmiri border recently. But now back to the grid. Understanding the grid and using it is something we can all do. When reading a book on dowsing it quite simply said, 'Don't just sit here reading this, get hold of two bent coat hangers at right angles and go and try it.' I followed the instructions and was incredibly surprised to find that it did work. The actual mechanism for how this works is a matter of conjecture, but it does work. It may be that we as beings detect the pulses and subtle changes of the Grid Energy from point to point. The energy appears slightly thickened every six feet or so and every 100 feet we have three lines coming together.

One can simply start by dowsing the room you are sitting in. Holding the coat hangers at right angles loosely in the hands so that they can rotate relatively freely, walking about the dowser will notice that the rods cross periodically and that they always do this in the same positions. Our ancestors used pendulums as well. Once you become familiar with this you can also feel the energy changes in the hands. Whilst walking along hedges with the hands out just in front of you at 90° angles you will notice you can feel pulses and when you look to the side at the hedge you will find new shoots growing where these pulses are. These pulses or twitches with the muscles are magnified with the rods and this is the mechanism whereby we think that the rods actually work.

The rods will do different things - they will open out, they will close in. The most common form of positive energy response is a cross-over where the two rods cross at diagonals. This indicates a thickening of the energy. Through simple observation I have noticed through repeated experiments that living organisms prefer positions where the rods cross. Trees for example will grow where rods cross; plants will also grow where rods cross.

At one point I said to an amazed group of students 'I am just going to dowse the molehills over there'. We had just stopped on the M4 motorway coming back from Devon, at Membury Services, and there were a line of molehills and then a sudden oblique angle in their pattern, which appeared totally random. I said 'I bet every molehill is on a

crossing point for the rods'. I made a prediction. I then followed the track with the molehills and sure enough, the rods crossed. At the point where the molehill's should have continued, it went at a sharp angle: there was no energy line straight ahead; the moles had followed the fault line of the energy. Rather incredulously, several students said, 'What a load of rubbish'. I simply said, 'Have a go yourselves'. Ten minutes later they came back totally amazed, for all of them had found the same phenomena.

I also noticed that sheep follow lines of energy; crows will sit in circles on the fields of energy; birds will build nests where the energy is strongest; the reproducing part of plants, especially trees, will overhang and produce more fruit where the energy is strongest. In the 60's it was found that this energy could be enhanced by the use of pyramidal shaped objects, initially with cardboard, but later bigger experiments with glasshouses were undertaken. Increased yields of food and growth rates of plants were recorded compared to control samples alongside. The pyramid shape and its precise angles had a definite effect on magnifying the energy forces of the grid and thereby giving organic life forms an advantage in growing.

This, therefore, is a very real technology. It may well be able to help people heal themselves as we are becoming more attuned to this. Especially in cities like Seattle, where they have actively tried to reinforce their own grid pattern in a positive way with monuments and with buildings. They have constructed tetrahedral and pyramidal buildings, to focus this energy in hospitals and in retirement homes and in such places that spiritual energy would be of benefit and of a healing nature. The city has actively engaged in following the wisdom of the Red Indians who, as the indigenous people of the United States, knew of *Wanatunka*, the Great One Spirit. It had to be worked with and not against and therefore understood the natural processes, just as the Aboriginal Stone Age people did in Ireland, England, Scotland and Wales. We must work with the energies of the grid and not against them. Therefore we should be aware of the negative aspect of humanity and of the militaristic ambitions of the politicians and scientists who would control humanity through controlling the grid with projects such as HAARP.

The NASA Smoking Gun video shows a large, trailing satellite some 80 miles away on a tether, which may well have been some sort of experiment to control the grid. It is conjectured that anything that is a

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large antenna or antenna array is something to do with this. It has been found that listening stations for the Secret Service are always positioned on these sites, sacred major energy sites. It is better to listen; equipment tunes in better at these frequency positions; the harmonic resonance is greater. Therefore, all grid sites that are not sacred sites have been bought up by the Military and now have military bases on.

Control of the grid is a higher dimensional ball game and ultimately the control of humanity. Therefore, understanding grid mechanics and grid geometry is an essential part of *Forbidden Science*.

Chapter Seven

The UFO Connection

There are no three letters more evocative than UFO. They stand, of course, for *Unidentified Flying Object* and man from Stone Age times to present has forever been fascinated by things that fly and objects in the heavens. The earliest records show the Romans recording seeing bright shining shields in the sky and this stimulated their somewhat limited imagination. The Bible also gives a description of what we term nowadays as a UFO in Ezekiel, a fiery chariot made of wheels within wheels and also of angels in attendance.

So this phenomena has long impressed mankind. It may also be key to opening the doors of imagination in our minds, affecting our consciousness and expanding it out into the Universe to contemplate more than just everyday survival. As we come more up to date, the, what I call, present UFO wave really kicked off in 1947 with the Kenneth Arnold sighting over the Cascade Mountains in the North Western United States, the press very soon labelled the phenomena 'Flying Saucers'. In fact the craft as described by Arnold were banana shaped, not saucer shaped at all, but more elliptical in nature, much like a boomerang, but the legend was born.

The phenomena kicked off more properly when we look at the records in what we call the great airship scare of the 1890's over America. The phenomena always seems to be related to how we perceive air transport at our present, or just in the future, time. It reminds me much of the Aborigines who, when Captain Cook turned up 200 years ago in Botany Bay, could not see the ship that he was in because it was beyond their comprehension and outside their conscious perception. So they couldn't actually see it, in the same way as the Aboriginal people of Borneo could not see photographic images of themselves because they had no framework with which to place this in their minds. So relating

the phenomena to present air transport is probably a good analogy and helps us gain a handle on it.

The airship scare of the 1890's gave way to real airships, which waged war in the early part of the 20th Century. It is quite amazing to consider the technical progress made due to warfare. Over the four years of the 1914-1918 Great War, Britain went from having no aircraft at all, apart from one or two light, experimental craft, to producing 55,000 aircraft of a far superior nature in terms of combat and performance within a time span of just four years! On the other side of the coin, the French were busy experimenting and producing great headway in aviation too, along with the Italians and last but not least, are the Germans. The Germans are an exceptional, technical people and are capable of developing very good science and technology. The German Air Force was outnumbered three to one by the Allies and therefore had to rely on innovative new technology in order to hold an edge. Typically the 1915 Fokker scourge that led to Bloody April in 1916 when the Fokker Eindekker ruled the skies and accounted for many victims, some 300 plus in the Allied Air Forces.

The innovation continued up until the end of World War I. The Treaty of Versailles actually named the Fokker D VII as being part of the war booty of the German surrender and therefore all Fokker D VII's had to be handed over to the Allied Powers. Such was their awe at such a superb flying machine!

The Germans were also very good at producing lighter than air flying machines right from the start and were very innovative, especially with the Zeppelin programme a whole technology with support equipment on a massive scale blossomed literally overnight. In the 1920's the experimentation continued into circular winged aircraft. The advantage of the circular wing was that it would give increased manoeuvrability and lift in all directions. The first experiments with conventional petrol engines were undertaken during this period. Dr Schümann was a German scientist who was busy experimenting with alternative energy and producing what we now term 'electrogravitic craft' for the esoteric newly formed *Vril Society*. These early experiments were triggered by the work of Heinrich Hertz and the other great Germans who pioneered in the field of radio and television.

In America too early pioneers of physics and electro-magnetics stumbled on to electrogravitics and published their results controversially in public as a great showman like Nikola Tesla or more

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often quietly in retirement so avoiding being dismissed from mainstream employment. In the latter category after a distinguished career in the weather service Francis Eugene Nipher published a series of important papers towards the end of World War I.

Nipher, Francis E., scientist, was born December 10, 1847, at Fort Byron, New York. With his father he came west to Iowa City in 1864, where he entered the University of Iowa two years later, graduating in 1870 with such high honours that he was immediately called to a tutorship in that institution, remaining as an educator in scientific branches for a period of four years. He was then offered a professorship in Washington University, at St. Louis, and took the chair of physics.

During the next few years, while attending to his duties at the University, he wrote and published a number of valuable papers on "Animal Mechanics." he also contributed to the St. Louis Academy of Science and to the "American Journal of Science" articles on the distribution of errors in numbers written from memory, "A New Form of Lantern Galvanometer", etc. On private means he conducted a magnetic survey of Missouri from 1878 to 1882. In 1877 he organised the Missouri Weather Service on the same system then prevailing in Iowa, and which was afterward adopted by most of the other states ...

Professor Nipher was for several years president of the Academy of Science and also president of the Engineers' Club, writing the reports of the transactions of the former for five consecutive years. He also contributed numerous papers to scientific journals, American and European, on "Electricity", "The Steam Engine", etc. His "Theory of Magnetic Measurements," published by Van Nostrand in 1886, and "Electricity and Magnetism, 1895, are standard works on these subjects.

This dramatic announcement appeared in a prestigious national newspaper of the time:

New York Times (19 September 1917)

"Professor Tells of Electrical Tests Turning Attraction Into Repulsion."

A new theory as to gravitation will be announced soon before the St. Louis Academy of Sciences by Professor Francis E. Nipher, retired head of the Department of Physics of Washington University.

"It will be shown that gravitational attraction between masses of

matter not only has been diminished into zero, but has been converted into repulsion which is more than twice as great as normal attraction."

New Gravitation Theory

Professor Nipher made his experiments with bodies suspended horizontally toward each other. By introducing electricity into the atmosphere he converted normal attraction into repulsion.

"If electricity can alter the gravitational attraction of the bodies used in my experiments," he said, "the same force can alter the earth's attraction. If the negative electricity could be drawn from the earth's surface, gravitational attraction suddenly would cease and the cohesion of the earth's surface would be disastrously affected."

The British also had their pioneers in this field, with Sir Oliver Lodge, Sir William Crookes and John Logie Baird. Sir Oliver Lodge actually broadcast a radio signal before Marconi in 1894 and demonstrated the transmission over 60 metres. This recently came to light even though Marconi is credited with the discovery of radio and broadcasting the first signal. However, it is very much a case of print the legend with history and most people do not even remember his name. Experiments in the use of radio waves tended to support the idea of the *ether* as we have seen, and they also led the early pioneers to early speculation on the wave nature of the Universe. A very interesting concept with waves is that one wave can increase, decrease or completely cancel another wave. In physics we have what is known as *constructive interference*, which is when two waves in phase come together to make a big wave, and *destructive interference*, when two waves in opposite phase come together at the same point and cancel each other out. This cancelling of the waves may hold the key to producing an antigravitic propulsion system.

The other approach used by the Germans at this time, in secret and with some help from the occult and psychic connections of the Knights Templar, was to use electrical static charges. As we know from everyday physics, static charges can repel and attract. Opposite charges attract, like charges repel. By inducing on the surface of an electro static conductor or insulator a high voltage energy charge, the attraction can cause electro buoyancy, whereby the object seems to float defying gravity. This would give the potential for an electrogravitic device to be incorporated in some mode of transport. We have electrical potential in

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the upper atmosphere (ionosphere) of some 400,000 volts, with the use of extremely high voltages in the order of 10 to 12 million volts charging the surface of an insulated vehicle. Such a vehicle could be made to rise. This would account for the early *Buck Rogers* tin can type technology flying saucer photographs, some of the most famous ones taken by George Adamski in the 1950's.

But these craft look much more like something that is experimental and out of the history books than anything that is a future technology. It is now generally known that the Germans pioneered some of these more exotic methods of flight propulsion. And that the programme accelerated in secret once Adolf Hitler became Chancellor of Germany in 1933. Parallel with this was the advancement of conventional German aircraft. These included such advanced structures as the aerofoils built by the Horten brothers, who experimented with flying wing kites and very quickly gained the idea that the single flying wing with very low drag was a perfect aerofoil for producing an aircraft. The Horten brothers went down the conventional route of using first of all, propeller propulsion with conventional combustion engines, and then finally jet propulsion with the famous ubiquitous Junkers Jumo jet engine as fitted to the Messerschmidt Me 262. The Horten 9 also designated Ho 229, of which three made it into the air during the latter part of 1944 or early part of 1945, was capable of a theoretical speed of 900 miles an hour. Being just a large, single flying wing of fighter proportions extremely light in build and tail less, a technically advanced very agile and fast craft was produced. This craft, had it been made in vast numbers may have made a difference to the German war effort. As it was, production was channelled into the Messerschmidt Me 262 and some 900 examples this were built instead.

Unfortunately, as with other things, or fortunately from our point of view, Adolf Hitler directly interfered in the production and development programme and insisted that the Me 262's carried bombs. This was exactly the wrong thing to do as they were envisaged as a light fast interceptor fighter in order to shoot down the massed formations of enemy fighters and bombers. At that stage of the war the Germans did not need a small, tactical bomber but, having to follow the wishes of Führer, the development engineers therefore complied and wasted quite a bit of time fitting a couple of small bombs to the Me 262.

But even more esoteric examples of German *UFO* technology were being pioneered. Some very rare photographs show saucer-shaped craft

made of what appears to be wood and canvas with German markings, the iron cross or black sun symbol, which comes from Babylon, and in one case mounting a machine gun in a ball-type turret whilst floating in the air. It is believed or thought at this present time that these craft were using static electricity generators, but that others may have used the more advanced Tesla-type coils. Nikola Tesla, an early pioneer of radio, electricity and the brushless alternating electric motor, with some 2,000 patents to his name, dabbled in high voltage electricity experiments. He was first and foremost a showman, which gave him some flair, but in other quarters caused him to be cast as a maverick scientist by the conservative scientific community. By pulsing the extremely high voltages produced in his coils of some 10 to 12 million volts, strong magnetic fields could be produced by the specially wound "Tesla" coils being used. When pulsing these magnetic fields at extremely high frequency strange phenomena were observed to occur. The fields apparently distorted space/time and caused the craft emitting them to become buoyant. It may be that this resonant frequency of the pulsing of the magnetic field was interplaying with what we are beginning to understand as gravitational waves. Gravity is still not totally understood and the wave nature of gravity is being investigated at this very moment. Tesla himself was convinced of the electrical nature of everything including gravity and thereby lies the explanation for his obsession with the subject - the Universe is composed of but charge and spin.

Very many experiments have gone on over the last 50 years to try and detect gravitational waves. It may be that the electro magnetic waves were destructively interfering with the weaker gravitational waves and because of the harmonic resonance of the two phases of waves they were able to interlock and cancel, thereby creating electrogravitic buoyancy in the craft surrounded by the magnetic coil induced field. The craft would then rise into the air exactly as the photographs show and, although not being terribly stable or directionally able to control itself perfectly would wobble around in the air. I have in my possession, several famous film and video clips that show exactly this predicted behaviour.

But the Germans being ever technical and imaginative, and spurred on by their own science fiction genre and esoteric occult connections, produced some very complex and interesting plans for much larger types of these machines. They were termed variously, the *Vril machine*, based on the idea of using *vril energy*, which equated to an occult form of the all-pervading energy which we would label ley lines or chi in Chinese

philosophy, and the mysterious sounding *Haunebu* craft. The Haunebu 1 and Haunebu 2 (now known to be a shortened 7 letter stencilled form of the word Hauneburg, a town in northern Germany from whence the parts were manufactured and assembled) were very large, saucer-shaped Adamski-type craft with three ball turrets on the bottom. They had very electrostatic compatible structured surfaces, such that the bell-shaped surface with portholes on the upper hull that could contain a large electrostatic charge. This would have been conducive to that needed as a design to produce electrogravitic lift. The balls underneath when made of a suitable material would also act as an insulator to insulate the craft from the ground and would rather conveniently for the Nazis also double up as machine gun or cannon turrets to attack ground targets!

Vril 1 - WWII German electro-gravitc aircraft

Unfortunately, the Germans weren't into cosmic peace and harmony so all their designs contained lots of machine guns, cannons and bombs. They even planned a larger machine to house the *flying gyroscopes* this was mysteriously called the *Andromeda machine*, it was conceived of as a giant floating aircraft carrier in the sky, a cigar-shaped object mother ship, which would contain several Haunebu craft. The sheer concept of this sort of apparatus begs the question of just where the Germans gained the information and imagination to design these things. It may well have come from their occult use of psychics who were believed to be in contact with other intelligence sources from different star systems, such as Alderbaran in the constellation of Taurus or more mundanely just plain old science fiction. It may well have been the same intelligence that influenced the rise of Babylon and Sumaria, with its complex laws and systems of civilisation apparently from nothing five thousand years ago. There has to be a reason why civilisations suddenly burst forth and a more rational explanation is very difficult to find to explain this point. So in all probability the same extraterrestrial psychic sources similar to those encountered by the shaman of our own ancient people, possibly enabled the Germans to gain the information from other intelligences in the Universe?

Luckily for us the Germans ran out of time. The end of the war came and, as with all the Nazi super technology, including the Vengeance weapons, the V1 and V2, fell into the hands of the Allies in 1945. These conventional rocket weapons as designed by Werner von Braun and his experimental team, were eventually to put America on the Moon in

Ian C Baillie



Vril 1 - WWII German electro-gravitc aircraft

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1969. They had been conceived immorally at the Peenemünde facility, in a vast underground complex using slave labour to produce weapons of mass destruction, but had ultimately been used just twenty short years later to facilitate one of mankind's greatest achievements - such is the irony of human technical achievement! The Allies, as they marched into Berlin in April 1945, sent in teams to grab all the technology they could as rapidly as possible. The Russians, the French, the Americans, the British and the Canadians all had their own agenda for stripping Nazi Germany of all its technology and advanced machinery. Even up to the last week of the war the German war machine under Albert Speer was producing machinery and armaments at maximum production capability. Many of these facilities were underground and therefore escaped Allied bombing. This led to post war claims upon reassessment that the allied bombing campaign had been somewhat of a failure

The Americans termed their operation to grab Nazi technology 'Operation Paperclip' the idea being that not even one single paperclip should be left behind once the locust-like teams went in. The technology was therefore grabbed and returned to Los Alamos in New Mexico. Some intriguing insights into what had gone on at Los Alamos have turned up recently. Several Nazi artefacts have found their way in New Mexico to boot fairs and flea markets. One of them was a *peiltochter*, which is a fixed bearing directional daughter compass, and it was marked with Nazi markings and 1937. This is thought to be a slave compass from a defunct Nazi UFO that has ended up in the memorabilia market due to the Nazi markings.

For it turns out that the Nazis had been collaborating and working with the Americans in New Mexico just before the war. When the war started the Nazi scientists went back to Germany and both countries followed their own individual programmes of rocketry, weapons technology and associated munitions technologies, including the Manhattan Project to produce the first atomic bomb. Luckily for the Allies the Germans were not as advanced with the atomic bomb as they had suspected. As in the film the *Heroes of Telemark* did a good job in destroying the German heavy water plants in Norway. But the Germans were not so far away from producing a viable atomic bomb, much nearer in fact than we have been popularly led to believe. The thought of a V2 rocket which is able to go high into the stratosphere, some 70 miles, with a 1 ton warhead is bad enough but the same V2 rocket armed with a nuclear warhead would have been unimaginable to the average person

in 1945. But this was precisely what the Germans intended. As long ago as 1907 H G Wells had written *War in the Air*, whereby a fleet of German Zeppelins attacked America. The idea of atomic weapons came to light in Wells' writing of *The Time Machine* so the thought of Nazi V2's bombing America with atomic weapons was not so far from the truth and it is known to have given Sir Winston Churchill many a sleepless night.

Ironically it was the capture of the German submarine U234 with its cargo of 500 kilos of enriched Uranium oxide destined for Japan at the end of the war, that gave the Americans enough fissile material to enable the building and dropping of the Hiroshima and Nagasaki bombs. So the material was successfully delivered, but not in the way that the Axis had intended!

However, as the war ended not only did the Americans and the Allies grab this and other secret technology, but they also grabbed their share of the Nazi scientists. As the Cold War started, the race was on between the Russians and the Americans to grab the top scientists to do with rocketry, space flight and atomic weapons technology. The Russians initially got their share of the scientists, but the Americans with the attraction of freedom, democracy and an affluent life style managed to secure von Braun and his team. Werner von Braun who as a Colonel of the SS should have stood trial at Nuremberg, but he was given a new identity and his records erased as to war crimes by his new paymasters. Many of his colleagues also actively gave themselves over to the Americans to avoid the retribution of the Russian's under Stalin. A wise choice and as my good friend Mervyn Newell head of our local UFO East Kent Research Unit, says, 'You do not destroy anything that is of use to you'. So therefore von Braun became the hero of the American space programme and the rest is history!

The space race was then on to produce a conventional rocket to launch satellites and get into space. The Russians steamed ahead and at every stage appeared to have the Americans beaten. Sputnik 1 had taken the lead in 1957 and Major Yuri Gagarin had orbited the Earth in Vostok 1 by 1961. The Americans at most could only put a 4lb (pound) satellite into orbit. They simply were not winning the race, much to their collective horror. It was at this point that President John F Kennedy gave his historic address whereby he set the American people the goal of sending men to the Moon and returning them, by the end of the decade. This was considered complete bravado and total fantasy by

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many of the scientists at the time. But with will power, effort and, most importantly of all, money, nothing seemed impossible to a confident America. As we know this culminated in the Apollo programme, sending three men to the Moon and returning them safely in July 1969. But, as with magic, smoke and mirrors, when you are watching the one hand which is shown openly, the other hand is up to something else! In the covert black world of the spooks all is not as it seems. Compartmentalised security, need to know basis and too many agencies have all played their part in deliberately hiding the truth. And it has now come to light with the advent of documents on the Internet that the Americans among others have been working flat out on electrogravitic and other exotic propulsion system craft.

The early 1950 UFO pictures taken by George Adamski may well have been experimental Haunebu craft that had wandered out of the constraints of the test ranges. The key timing of the Roswell incident in 1947 which just happens to be 19.47 or 19.5 rounded up, a nice coincidence as pointed out by David Percy, gave rise to the alleged alien phenomena era. There are a number of possibilities: Grey aliens did crash either accidentally or deliberately in the Roswell area of New Mexico and the US Air Force did recover real debris, new materials, technology and dead bodies. Or it was an experimental flying disc such as the type used by the US Armed Forces. The Germans had also experimented with *feuerkugels*, unmanned radio controlled flying saucer devices, designed to emit high electric bursts of static to paralyse enemy bomber engines. Allied pilots reported seeing these flying alongside and disrupting formations but strangely so did German pilots, therefore perhaps it wasn't the Germans at all, it may well have been a third party? Certainly ghost rockets had been reported as early as 1939 in the Scandinavian countries. Again, these may have been early Nazi test rockets. All points must be considered and I have learnt to be ever cautious over the years before drawing a conclusion if at all. Maybe that is entirely impossible in absolute terms, but one does derive an informed opinion over time as to the probable cause underlying the visible effect. It is a common human failing to refuse to accept any evidence no matter how clear that contradicts with ones belief system - for once admitted it has to be explained! Denial is therefore a very human evolutionary condition, but one that must be overcome consciously in order to make progress.

We are looking at *Forbidden Science* and at the black and covert

world of technology. Both sides use information and disinformation to hide their activities. When asked did the US Air Force have any flying saucers after the Roswell incident, they reported, "No they didn't!" and this may well have been an honest answer for it appears that it is the US Navy which were busy experimenting with flying saucer-type craft. Of course, when one considers the name *spaceship*, we therefore have a *space navy* and not an air force so the senior service of the navy developing such craft is quite logical. Admiral Bobbie Ray Inman has been recorded as saying that the US Navy did have such a programme. When approached more overtly, having retired from the US Navy, he became extremely cagey in his answers. So, was it grey aliens and their craft that came down at Roswell or was it a US Navy craft? Another option would be a craft from a third party, be they extra-terrestrial, inter-terrestrial or in fact, more mundanely, just another earthly power such as the USSR as was.

As we are concerned in this book with the science and operation of exotic propulsion systems, I don't propose to dwell on the history of Ufology citing many of the more interesting cases. I shall leave that to the plethora of capable published researchers that already exist. I intend more to describe the science behind the subject for it was this nuts and bolts science described in Timothy Good's *Alien Liaison* that first drew my interest back into the field of Ufology after a considerable lapse of time. Parallel to this, I began a field study of other anomalous phenomena, such as crop circles, which coincidentally, during the 1989 - 1991 period were becoming much more prevalent in the news - but more of this in the next chapter.

A strange occurrence happened around 1958 - 1959. My good friend, Mervyn Newell, has one of the most comprehensive libraries of books on Ufology, secret aircraft and related technologies. His books date back to original editions from the late 1940's, early 1950's. In this literature electrogravitic craft are freely discussed and photographed showing that Britain, Canada, France, America and Russia all had programmes developing flying saucer-type craft with unusual propulsion systems. Flying saucer-type craft with conventional propulsion systems were also freely photographed and mentioned. The project 'Silver Bug', an atomic powered - type craft, was one such case.

Many other examples exist, but around 1959 all books referring to electrogravitic craft were removed from the bookshops of the world. Some force of censorship so powerful was able to stop in all countries of

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the world the sale of books with this information. I think, therefore, at this point that some significant progress must have been made and, in order to put the public off, this information had to be suppressed. The rise in alien stories and other such phenomena such as the *Men in Black*, were actually encouraged to some degree to mask the real military projects being undertaken. It is very simple to pass off super secret technology as being extra-terrestrial. Straightaway other scientists will ignore it and the public will be only momentarily interested, but immediately go back to sleep and not look too deeply.

The advantage of *knowing* that the technology is extra-terrestrial means that we cannot reproduce it with earth-like technologies and therefore we shouldn't try. Any scientist worth their salt once knowing that another country has achieved a technological breakthrough will immediately try to duplicate the same breakthrough themselves. This is also all kept well out of the mainstream scientific publications. Interestingly enough, it did not happen with the atomic bomb. The designs of the atomic bomb were freely available in scientific papers in the early 50's and, to the embarrassment of the American Government, the Russians were found to have got hold of these papers with all the instructions to build one. Bit of an own goal there!

The same applies with flying saucer technology the lessons of deception have been well learnt, tried and tested on an ignorant public. It is easy to see with hindsight that the *corporate disinformation machine* has been in full swing these past 60 years. Of course, with the added overlay that there probably was also some other sort of real phenomena going on. We have witnessed the same thing recently in the crop circle camp. We have a genuine phenomenon that is masked to some degree by people mechanically hoaxing elaborate crop circles. But if one considers the phenomenon as consciousness interacting with matter, then human or other, it is all part of the same complex phenomenon! This tends to muddy the waters considerably for people wishing to do genuine research, but perhaps in the UFO propulsion system camp this was not a bad thing as the stakes are both dangerous and high. Oh what a wicked web we humans weave, the Universe is quite simply a complex enough place without us adding to its machinations!

With the advancement of the hand-held cine camera and of late the video camcorder, ordinary people have managed to capture very unique and interesting footage of unusual phenomena. These phenomena can then be analysed at great length, frame by frame, in order to detect

whether the footage is genuine and, once the footage has been ascertained as being genuine, then the mode of transport and functioning of the craft can be analysed. I have looked at hundreds of hours of UFO footage and have analysed the propulsion systems being used and the manoeuvres being performed with some success.

With the advent of Timothy Good's book *Alien Liaison* a maverick scientist named Robert or 'Bob' Lazar as he is better known, came forward to explain how the propulsion systems of some saucers allegedly held by the US Government worked. The information, as with all information, contained genuine, real information but I am fairly sure that there was also a liberal dose of disinformation. It may be that the American Government were hoping covertly to get the message out that they had superior technology and this having been picked up by the Russians would have the desired effect of persuading them that the Star Wars option was real and therefore causing the Soviet Union to implode, which is in fact what happened with President Reagan's great Star War bluff. The advent of much more modern alloys, composite material such as carbon fibre, complex electronic circuitry for control, even the advent of the transistor, may have had some connection to do with Roswell and UFO technology as rumoured. Most importantly of all, with the advent of super conductor materials at room temperature in the form of wires it is perfectly possible to build advanced saucer-shaped spacecraft.

Analysing the footage of many hours of video and film one can see that very high magnetic fields are being used, manipulated and pulsed in order to produce the effect of making the craft buoyant. This appears to create a field effect around the craft whereby normal space is distorted. The craft with its occupants would be, in effect, in a bubble of self-contained space. They would therefore be completely inertia-less and therefore not suffer horrendous G-forces as the craft made wild manoeuvres in 3D. The field effect of the craft could then be projected, distorting space. As the space was distorted towards the craft, and this has been observed on several video clips, the field effect generator is turned off and the craft like an elastic band jumps back into a new piece of space. The craft itself appears to have moved at a tremendous speed many thousands of times faster than normal aircraft but this is an illusion. By making a series of short hyper-space jumps the craft can bunny hop to any point it wishes to go. With the generation of a much larger field effect large amounts of space can be bent and distorted but the occupants to all intents and purposes have not moved. The space

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around them has moved, but they themselves have stood still. This reminds me of Einstein's apocryphal phrase, 'What time does Oxford get to this train?' Whether he said this we are not too sure, but it does sound a sort of Einsteinian type comment.

With this sort of technology we would need vast magnetic fields in the order of GigaTesla magnetic field units. To give an example, a one-Tesla field magnet, of which I have one in my laboratory, is extremely powerful and can affect compasses up to a range of several metres. The pupils had great trouble pulling the magnetic keepers from the magnet. With a direct pull this cannot be done, but with sliding and pulling the keeper onto its edge so there is a small contact surface the keeper can be withdrawn from the one-Tesla magnet. To give an example of the fields required we would be talking of GigaTesla magnitude. This is in the order of one billion Tesla field units, fields so powerful that they could entirely distort the space around the vehicle, so that a casual observer could not see the vehicle. This has been recorded by various witnesses in UFO cases that report they can only see the craft from underneath, yet simultaneously other witnesses could not see the craft from other viewing points.

A doughnut shape or toroidal magnetic field is therefore without doubt the main form of field propulsion used. The craft could use a relatively small energy source, as the main advantage of a *super conductor* material is *zero electrical resistance*, therefore once the electrical charge is in motion it continues to circulate within the coil freely thereby building a sustainable magnetic field of enormous magnitude. This is exactly what is needed to warp time and space and is known in the trade as a *field propulsion system*. Interestingly Scientific American in the August 2000 issue had a simple one-page article showing the new solid state super conductor wires! Three such cassette tape thickness wires are capable of carrying enough current to supply a complete city!!!

At one stroke, with this piece of information in the public domain I realised that if they have these wires then UFO technology is very real and very possible. A craft made with such super conductor wires would use very little energy to pump up the electronic coil. The vast cyclotron coil created around the craft would allow charged particles to flow effortlessly as there would be zero resistance to the electrons in the coil. Once the coil was energised a small maintaining energy input would be all that was required to complete the magnetic field stability. With such a coil the effects observed by many observers commonly known as 'lights

in the sky' pulsating different coloured lights comes vividly into mind. The phenomenon known as *cyclotronic radiation* is a colour band lightshow that emanates from such a coil when it is in use, going from red to violet through the colours of the rainbow as the field intensity grows. The coil would also cause burns and damage to anything within close proximity. Being that humans are made of water and water is subject to magnetic fields and disturbance and indeed several witnesses in UFO contact sightings have sustained such burns over the years. A beneficial example would be the use of magnetic fields for positive purposes such as in nuclear magnetic resonance scanners and medicine. Here a large magnetic field polarises all the water molecules in a person's body, then at the point when the magnetic field is turned off, the water molecules spin round back to their original positions, giving off a burst of radiation which is measurable by the scanners sensors. Very detailed pictures of the structure of the human body can therefore be taken with suitable sensitive sensors. Tumours and other such anomalies that contain a lot of water are easy to spot. An accuracy of up to a resolution of four cells is quite easily obtainable with these machines.

It also appears from many cases that the hull of such a craft would be composed of a single metal crystal, the lack of crystal boundaries in such a structure would make the hull of the craft in effect a superconductor and subject to the above conditions as discussed. The growing of super size crystals of silicon is now a routine matter for our earth scientists, who routinely produce these for the silicon chip industry. Zero gravity conditions were thought to be necessary initially in order to achieve this, but this has been overcome in other cheaper more ingenious ways now.

To conclude, we come to the possibility that was first raised by Jacques Vallée in his rather interesting books of the early 80's (one of which was coincidentally entitled *Forbidden Science!*) in that not all UFO phenomena are in fact nuts and bolts UFO's. There appears to be a wide band of opinion that many of these sightings are of craft from another dimension and, as we have discussed previously, the idea of a multi-dimensional universe is highly possible and is almost a certain probability at this present time of new ideas and evidence. Such beings or intelligences in a slightly higher vibratory frequency could operate invisibly within our own 3D space. Should they choose actually to make themselves visible then they would simply slow their vibratory frequency down so that we could see either them or the mode of transport they were using. This appears to be what happens with a lot of sightings.

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Vallée and other workers pursuing these ideas termed visitors 'ultra-terrestrials or intra-terrestrials' for they inhabit the same state space that we do but it is just that in normal everyday reality we cannot see them. Interestingly enough, the recent video footage from Mexico showing the Flying Rod phenomena with extremely fast frame video footage, of 10,000 frames per second, being taken of parachutists leaping into a 400 metre cavern shows Rod-like creatures quite routinely swimming, for want of a better word, around. Although they are entirely invisible to our own eyesight and our video and filming equipment at normal speed they are visible when the same video is played back frame by frame. The latest finding is that they appear to be travelling at 60 times their own length per second, this seems to be an interesting frequency observation of some note. Jose Escamilla was the discoverer of the Rods Phenomenon that occurred at Midway, New Mexico on March 5, 1994. This has since been shown to be a world wide phenomenon and easily reproduced by anybody with a video camera or fast frame rate digital still camera.

Importantly from a scientific point of view this is a repeatable phenomenon. Similarly, Jaime Mausan, the Mexican reporter who has done so much to bring to light the Mexican UFO footage from the great eclipse in 1991 up until this present day, has also presented this information at major UFO conferences. His impressive battery of evidence includes hours of recorded footage showing mass UFO formations, large detailed individual craft and now more recently the *Flying Rod phenomenon*. It is quite possible that with this rods' phenomenon, we are witnessing actual life forms that live alongside us but in a slightly higher frequency dimension! For they seem to be aware and to move intelligently when viewed on video. It seems therefore that our world is much more complex than we imagine and, as with everything, it may well be that the future is multi-dimensional.

Another intriguing possibility is that habitable planets in a higher dimension are not so far away as they are in 3D space. The Pleiades from whence the blond extra-terrestrials allegedly come, is some 400 light years away in 3-dimensional space, yet in a higher dimension the same Pleadians could be our next-door neighbours. In a multi-dimensional universe anything is possible.

The distortion of time and space by these technologies brings about endless possibilities. Certainly the grey-type aliens of X-Files fame are thought to be intra-dimensional and able to navigate through and

around time. We as physical beings inhabit time but they seem to have some degree of movement through time and around time with their advanced technology. I chanced upon a publication called *Above Black* by Dan Sherman, a former master sergeant and technician with the US Air Force Intelligence staff, who developed his powers as an intuitive communicator and was trained by the US Air Force to carry out this task. It appears from his own story, and I have talked to Dan myself through e-mail, that this is most definitely a genuine case and that he came from a genetically enhanced embryo created for this specific purpose. For his mother was part of a covert military programme to develop human beings with extra psychic potential. Again, this is not fantasy but hard everyday science that has been going on in secret for the last 40 odd years.

It all sounds very much like science fiction but, as Dan Sherman will testify, to him it is just simple fact. He was used by the US Air Force to intuitively communicate with what we term as 'The Greys'. These are the little grey aliens, ET's, in a programme of cooperation and the routine use of alternative spacecraft very often giving mapping co-ordinates for landings and take-offs. In his off moments he managed to have several 'conversations' with his grey counterparts. He named them variously, 'Bones' as from Star Trek and other nicknames. They told him quite simply many different things but, being a non-physicist, Dan was not able to understand the concepts but merely recorded them verbatim. I found these concepts extremely interesting and indicative that Dan Sherman had in fact had real conversations with conscious beings that are more advanced and have more exotic technology than we do at present. Certainly the idea of inhabiting time is something that we may well be coming to the end of, for with the advent of 2012 it is predicted by such visionaries as Terence McKenna, who recently died, that the human race becomes non-linear round about 2012. His *novelty wave theory and mathematics predicts this with some considerable accuracy*, his discovery coincides precisely with the predictions of the ancient Maya - the Time keepers of the human race, that we become non-linear around this date as the age change from Pisces to Aquarius.

A simple explanation for this would be that we as a race invent some sort of time machine which enables us to travel around time and not just through it and to inhabit it at different points. This would then completely alter the future evolution of our own race. We would become much like the Greys: able to be past, present and future all at once. This

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may not be so very far-fetched for we ourselves in our ethric bodies are able to inhabit various points in time. Therefore we are beginning to awaken to the possibility of our true, multi-dimensional nature and the interesting concepts it throws up. Most people have enough trouble dealing with the here and now; actually to start considering past, present and future and the possible alternatives is going to be a bit of a headache for most people but this may well be what is going to happen. As one person once said to me, 'When the 3D packet of soapflakes on a shelf in Sainsbury starts to disappear into and out of reality we are going to have to focus very tightly in order actually to pick it up! Again, it sounds like science fiction, but hey, anything is possible in a multi-dimensional universe.

The use of consciousness and energy leads us on to the next chapter. For a long time I thought that the early crop circles were simply UFO nests. These are swirled landing sites left by craft reportedly having landed and then taken off. The magnetic field propulsion systems cause plants to thrash around and swirl into nesting patterns. Road signs, similarly, have been seen to vibrate and cars to stop as their ignition systems fail due to the vast magnetic fields being operated. Yet diesel tractors are unaffected for, as we know diesel engines use no electric spark and therefore UFO craft do not affect them. So, as we leave this topic we can see that the whole gamut of phenomena displayed by UFO craft is now becoming real science, science that we can understand and science that we can also duplicate. But will we be able to say the same of crop circle *technology* in the near future?

Chapter Eight

Crop Circles and the Consciousness Conundrum

The phenomenon of crop circles is something that has been relatively recent in our collective memory but the records show that the enigma of crop circles goes far back in time to the Middle Ages and possibly beyond. The famous woodcut of the Devil's mowing machine has been seen by most people and, talking to various farmers whilst researching crop circles, they can remember their fathers talking of *circles* in the 1920's just after World War I, but they were usually just dismissed as a freak of nature.

The modern crop circles really took off somewhere in 1976. Certainly by 1978 odd circles were appearing with increased frequency in Wiltshire and Hampshire. This caused quite a bit of interest in the early 80's within a small group of enthusiasts. Of which the most notable workers in the field at this point in time were Pat Delgado, Dr Terence Meaden and Colin Andrews, together with Busty Taylor, a much loved local character and pilot, who thank goodness thought to record this phenomena from the air. The crop circles posed quite a conundrum and these various workers were convinced that it was either a natural phenomenon, as Dr Terence Meaden put forward with his electric whirlwind theory, or that it was some form of practical hoax perpetrated by people for unknown reasons. The third alternative, that it was some form of consciousness interaction with matter, was only tentatively speculated at initially.

As the 80's progressed the frequency of crop circles increased also. Most were just simple circles at the start. Towards the end of the 1980's the first quintuplet patterns emerged and this caused a great debate amongst the camp as to whether these were deliberate hoaxes obscuring a natural phenomenon or whether the phenomenon itself was genuine.

The great emphasis at the time was on trying to prove whether the circles were man-made and, if so, how they were made. Most workers came up with the idea that a plank could be used by *hoaxers* or with increasing sophistication a plank and string and a garden roller! This gave rise to the generic name of *plankers* for perpetrators of such deception. In the natural camp even such far-fetched ideas as mating hedgehogs were suggested as part of the natural phenomenon argument. Dr Terence Meaden, a well-known amateur weather scientist interested in hurricanes, associated wind phenomena and other aerial weather phenomena such as ball lightning, enlisted the help of a Japanese researcher who did several experiments using sand trays and microwaves. The object of the exercise was to try to duplicate ball lightning and the effects that it perpetrated once it came to earth. Little is known of ball lightning, but it does act in a very strange manner. Since those days ball lightning has been reported more often and people now have a much clearer understanding of this phenomenon. Ball lightning is certainly able to travel, bounce and cause some of the effects seen at first in the crops.

I myself have witnessed a local suspected crop circle at Maidstone in 1996, which turned out to be no more than lightning running to earth. The lightning had struck a nearby tree, ran down the tree and, before disappearing into the earth, had traversed a field, causing random flattening of the crop. We were able to verify all this from witness statements and from actual damage on the tree concerned just after the time of occurrence.

For me, the crop circle phenomenon offered the opportunity of some form of practical research, for we had a definite physical effect that could be measured and quantified. Initially I was merely a spectator and interested in current developments, keeping a weather eye on the literature. I was very interested to pick up a copy of *Circular Evidence* by Pat Delgado and Colin Andrews and I was taken with the simplicity, elegance and beauty of the crop circles in their natural setting. This was to inspire much more personal research over the next 12 years, that included spending several years in the field each season measuring and examining the phenomenon first hand. It is very important in science not just to read the literature, but to do the experiments and make the observations personally. This is good science and the more people are observing these phenomena, measuring and collecting data, the better.

Initially I was interested in how they were made and the Japanese

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researcher's experiments in the microwave certainly proved that this phenomenon could be duplicated in sand trays, especially the random grapeshot effects. But then the pattern started to take on a much more symbolic meaning and evolved into *pictograms or crop glyphs* as they became called. The year of 1990 brought forth the great, huge, enormously long, complex pictogram glyphs, which hit public consciousness head on. They were seen on magazine covers and even Led Zeppelin's famous album of the time. This did much to broadcast the phenomenon to a global audience. The natural camp were horrified for here we had something that was clearly intelligently directed, albeit by human hand or by hither to yet unknown conscious entities. This caused a radical rethink for some of the workers, who then left the field, so to speak!

For me, I watched with interest, but really sat up and took notice in 1991 with the pivotal *Barbury Castle 4 dimensional tetrahedron* formation. This for me was something of immense beauty and mystery. As with all good mysteries, it prompted my own research efforts to greater ends. I simply wanted to know just what was behind this enigma. Towards the end of the season, a beautiful *Mandelbrot set fractal formation* was found in a field of wheat at Ickleton near Cambridge. Luckily it was photographed from the air before the farmer managed to drive his combine harvester deliberately through it in order to erase it from public gaze in his field. For money and business had to continue unabated!

For me as with many others, these were *the* two seminal crop glyphs in my own personal development. They really caused me to sit up and take notice and I immediately wanted to know more about fractals and about higher dimensional geometry. I was vaguely aware of the Mandelbrot as a shape as I had seen pictures of it in passing. Later I was to discover that Benoit Mandelbrot had only discovered it in 1985 and that it had been on the front cover of an issue of *Scientific American* that year. He had produced a lot of his early research at Cambridge so the pictogram was very appropriate and was therefore dismissed by the media as simply a hoax perpetrated by students at Cambridge. But upon observing the photographs and the absolute symmetry of the figure, the crispness, the design and the execution were so perfect that I was not so sure. For students to do this in a field at night would be very difficult. Producing a simple experiment from this I engaged some of my students with chalk and asked them to reproduce the design on the playground

floor. The results were quite interesting. Most people could obtain the shape roughly, but the accuracy left much to be desired. *The crispness of execution that is seen on the computer screen and in this crop glyph was just simply not reproducible.*

I then spent the next two or three years investigating chaos mathematics and fractals, followed by looking into hyper-geometric polytopes and geometry. The latter was much harder to track down as it was much more obscure in the literature than the former. Chaos and fractals were the 'in' subject leading to a large part in the plot of *Jurassic Park* (1993) and it was very easy to obtain major works for investigation. I was simply taken by the beauty of the shapes, the complexity and amazed at how a few simple lines of computer code reiterated over and over again can give rise to such wonder. Being also artistic, they had a tremendous effect on my creative nature, so much so that I actively tried to recreate them on my computer and on T-shirts. I love to wear the designs of the universe on the front of a T-shirt for that means that the conscious concept has reached street level and is an everyday artefact of life.

I was intrigued by the revelations that were revealed during this period of time as I avidly studied fractal mathematics and chaos theory. Statements such as the concept that simple infinitesimally small variables could bring about great changes further down the line of complexity flooded my consciousness. The oft quoted phrase 'A butterfly's wings flapping in Tokyo can cause a hurricane in Central Park six months later' echoed around the world. *I was amazed also to find that to predict the path of any more than three particles is totally impossible!* Newtonian mechanics would simply not work with such complex systems such as the weather and the oceans. Billions and trillions of particles cannot be predicted, but conversely the science of complexity showed that we could make an attempt to understand these patterns. I found new mathematical constants such as Feigenbaum's Constant of 4.669, this being the average unit length that something such as a lightning bolt would run before it split into two forks, fascinating to behold!

It also helped me understand the weird and wonderful world of quantum mechanics for I was very much a nuts and bolts scientist with a simple scientific view. I was now becoming much more developed intellectually as a person and I now suspect that this was the intent of

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the crop circles patterns. They were/are literally *keys to consciousness*, as I began to term them. They began to literally open doors in my mind.

I was later to find that the sacred pattern linear geometry hidden within the circles appeals directly to the subconscious mind and that whilst our conscious mind is attracted to the proportion and beauty of the circles, the subconscious mind is busy noting the complex geometric figures hidden within. A good example of this was the Chiseldon ring crop circle formation of 1998. It appears as just a simple set of rings, much like a roundel from a World War II spitfire, but upon analysis, when one connects up the lines in tangent to the circles, one finds hidden within a pentagram and a heptagram. This hidden geometry impinges, I am sure, on the subconscious. Co-incidentally, whilst investigating mathematical Julia set patterns on my computer I was taken with the visual evidence of a *whirling cross swastika* at the heart of a particular variant of the Julia set being investigated. I realised then that these basic primal symbols were at the heart of the Universe and therefore our own consciousness.

It is no coincidence, therefore, that the swastika whirling cross is found all around the world in separate cultures from a rain god in South America to a fertility god in Japan, and to the Nordic whirling cross of our own Viking times. I realised that even if these symbols were shown to pygmies in the most obscure part of the Amazon or Africa they would be profound and meaningful. They were a set of universal symbols. I then realised that Adolf Hitler had used this universal symbol to stamp his authority on the German people. The whirling swastika in black on a white background is a very powerful cosmic mandala and will be with us I dare say for aeons to come. To further reinforce it by using red, which is a most vibrant and passionate primal colour used commercially in popular advertising to gain attention, was a further demonstration of this occulted knowledge. At talks and lectures I would demonstrate this by simply holding up black and white symbols on pieces of card, and the swastika never failed to gain an emotional reaction from the audience. This is a repeatable experiment - guaranteed to work!

I also further amazed audiences by predicting where people would sit in the audience as, coming into an empty auditorium, I would dowse the auditorium and find where my dowsing rods crossed; I would then mark the seats underneath and then watch the people arrive. As they arrived into the auditorium as a pre-warm up act I would predict where the next people would sit; much to the amazement of the audience the

new arrivals always sat where I said they would. This is further evidence that *science* can be used for prediction. Quite simply, the people were following their own subconscious intuition and finding the most energy comfortable places to sit and that of course was where the rods crossed.

Growing in boldness I involved myself in more experiments of this nature. Whilst on an adventure week in Bideford in Devon one of the exercises during the day was a leadership exercise. The instructor merely said to the group of students, 'Go off and find a place to sit in a field'. He was looking at social interaction within the group, such as who was the natural leader sat comfortably with other people gathered around them, and who was the outsider sat on their own. I said to him, 'I bet you they are all sitting where the ley lines cross!' He, quite incredulously, did not believe me but, upon dowsing the groups where the students were sitting, sure enough they were sitting precisely where the energy was strongest - where the *ley lines* crossed.

This I also noted in the crop circles, for crop circles either interacted with ley line energy or altered ley line energy. Either the crop circles were deliberately placed on positions of crossing of ley line energy or it was just random chance, but it appeared much more than random chance. It even appeared that the crop circles themselves possessed the ability to alter the ley line energy and create intense energy hot spots. This could give rise to the fact that people often wanted to enter the circles to absorb the energies and to sit and meditate. Maybe they were responding to the same basic subconscious urge to rest on ley energy lines. If one imagines a vast, invisible grid then plants can grow where they will and seeds will become fertile and grow into trees and other plants at positions of advantage. In plain open fields with no possible positions of advantage, all things being equal, such as soil fertility, chemical composition, water levels, I noted that weeds, especially the thistle, always grew where the ley lines crossed. It seemed to give the plant some advantage. I then viewed animals as being able to choose where to rest and recuperate as they gathered energy from the ley line crossing points. It appeared that all animals would move from one energy point to another instinctively. Herbivores would move around grazing on lines of energy between points and carnivores could be seen resting on energy hot spots before or after the hunt. Finally all animals including humans would settle down on an energy point to recharge their inner life force, termed *chi* or *vril* by some cultures. Try this at home, the places where members of the family relax such as beds,

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favourite chairs and other such resting points, are remarkably where the rods cross - therefore where the energy is strongest - you don't have to believe me it always works! *I therefore began to see the whole planet as simply grids and fields of energy.* I was then gratified to read the exact same statement made by James Redfield in his best selling *Celestine Prophecies*. I was also now more importantly acutely aware that the crop circles were interacting with this selfsame energy.

Sacred landscape

Even to produce a crop circle by mechanical means it would be very difficult to lay out the pattern precisely in the dark on these points of energy: there had to be some interaction or control of this fourth dimensional energy source. As to actually how the crop circles were being perpetrated, the whole world was treated to the *great media circus fiasco* of *Doug and Dave*, which was one of the most brilliant pieces of disinformation ever foisted on the gullible British public and the world at large. In a much heralded article in the *Today* newspaper all the crop circles to date were claimed to have been done by two old age pensioners who, having had a pint or two in the pub, went out into the fields at night to perpetrate these elaborate hoaxes.

Freddy Silva a famous crop circle enthusiast and esoteric geometry expert of some note takes up the story:

"Then, as if on cue, *Today* newspaper announced, 'THE MEN THAT CONNED THE WORLD'.

An article described how two elderly - and presumably extremely active - pensioners had made all the crop circles. Doug and Dave had sneaked out under cover of darkness, without either of their wives suspecting for 15 years, and constructed all the circles with a plank of wood, a rope and a baseball cap fitted with a ludicrous apparatus to, supposedly, help them construct straight lines in the dark by aligning the sight with distant objects (in the dark!)."

A newspaper article credited the Doug and Dave story to MBF Services. After much reluctance from the newspaper staff, it was explained that a freelance press agency had passed on the story to the newspaper. When asked for the phone number of MBF, the phone was hung up. Investigations eventually led to a 'research and development' lab in Somerset where work is conducted on classified government defence projects. Just before the Doug and Dave incident, a French government scientist had warned researchers not to risk their

Ian C Baillie



Sacred landscape

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reputations on the crop circles, for shortly the British Government would engage two artists and would present them to the press as the crop circles creators, to "put an end to all the wearisome fuss."

Dave Chorley passed away from cancer in 1996. Doug Bower is now about 78 years of age, if he is still with us. And still the circles come!

This story went round the world and even students who came from Australia to work at my school had heard the story that all crop circles were perpetrated by two old age pensioners called Doug and Dave! A famous television quote from Dave Chorley (now sadly departed) that I have on tape is, "That now they had revealed that they had perpetrated the crop circles, no more would happen!" And this was in 1993! But sure enough, the very next year the crop circles returned as they have done ever since, ever more majestic and ever more stunningly elaborate.

The patterns were increasing in complexity. The phenomenon was truly interactive: the more conscious attention we gave the phenomenon, the phenomenon responded by leading with ever more complexity and intricacy of information. Some workers, notably Wolfgang Schindler, have pointed out that if you view the crop circles in a sequence from beginning to end they do affect consciousness development, opening doors that were blocked in the mind. This seems to be their primary purpose. In my talks I termed them variously, *Keys to consciousness* in 1996 and *Icons of the higher reality*, in 1997, as I became more enthused with their undoubted higher purpose.

In 1994 I witnessed the scorpion formation on West Kennet Longbarrow, which was the first real crop circle that I saw close to. I had been inspired by David Percy's book *Two Thirds* to go and investigate the Avebury area with its Mars-Moon connection and climbing up on Silbury Hill, May 30, I was amazed to see this freshly made crop circle lying on top of the West Kennet Longbarrow. Upon investigation the elaborate design was found to be composed of just the top three inches of the crop gently melted over. I was totally stunned at the lack of mechanical damage and I then realised that I was looking at something very special; a phenomenon of miraculous proportions! It has been found generally that even the slightest mechanical touching of a plant stem can cause bruising and also a disturbance of the white patina, or powder-like substance found commonly on the stalks. Just a single finger will produce a fingerprint when the stalk is touched; yet all the plants examined had their white patina intact. *There was no mechanical disturbance of the site at all.* It was as if a giant, hot iron had gently

descended from above and just melted the top three inches of the crop so that it flopped over.

This was very impressive evidence that there was an extraordinarily complex phenomenon going on. I had initially assumed that the swirled structure of the simple, single crop circle if not mechanically produced was perhaps a *UFO nest* as reported by the UFO researchers. The magnetic swirling of the field effect of the propulsion system of the craft interacting with the water within the plants to cause this very visible and well documented effect. This elaborate woven nest effect has also been well documented by Dr Terence Medan as he sought a natural explanation and sited as evidence for his *electric whirlwind theory*. But as the designs grew more in complexity his argument was dramatically blown out of the water. I then shifted my view to thinking that these were merely stealth games played by the military. That military craft would penetrate air space, especially advanced secret craft such as the black triangular craft used by the United States, and that these markings were left on the ground as a token to make the radar operators and military forces aware that their defence system had been penetrated. I had worked for the military as a teacher in Germany so I was used to this game/exercise concept, knowing the military mind.

But, conversely, I was taken by the incredibly uplifting nature of the information conveyed by the circles. They were speaking of much higher things, advanced science, advanced mathematics and even theology! *They talked of a re-connection with the spirit of the one universal energy source.* They were beginning to weave a magical spell upon my own spiritual evolution as a physical being. I was becoming less mechanical and more in tune with these ideas, yet without overtly knowing. I started to use my intuition more; instead of deliberately going to try and find the circles I allowed myself to be guided. In 1994 with the eye formation in the Eastfield at Alton Barnes - earlier I had felt what I could only describe as an energy force at approximately 4 o'clock in the morning. Yet, I was in a holiday caravan some distance away in Dorset. I had suspected that there would be some sort of circle event that day as it was the 25th anniversary of man landing on the Moon. The date for that was July 21, 1969 in England due to the transatlantic time zone difference. I was 15 years of age and I remember it well for it was the first time that I had stayed up all night. It was the most momentous event in the human history and I was alive to witness it first hand with

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my father. Now on July 21, 1994 I therefore expected a correspondingly memorable event in this phenomenon, I was not to be disappointed!

My Dutch friend John Sanders had wanted to see a real crop circle so on that day, a Wednesday, I said, 'Let's go find a crop circle'. Driving the car almost by automatic pilot I travelled for two hours as straight as an arrow to the Barge Inn at Honey street. Even though I had never been there, this famous watering hole for croppies appeared as if by magic from nowhere as I drove through the twisting and turning lanes of deepest Wiltshire. Yet I drove on past the turning by the sawmill and through the village up onto Knapp Hill overlooking the Vale of Pewsey. This is it I said swerving off of the road into what I now know as the car park over looking the Eastfield and with that we all jumped out of the car, glad to stretch our collective legs. It was 12:30 p.m. and as I strode confidently forward up the track to the edge of the hill I spied a huge crop circle in the distance! Placed pristinely in the Eastfield as if by magic, 'This is what we have come to see!' My wife, young daughter and Dutch friends looked totally amazed and stunned by this apparent magic trick. For the famous *Eye formation* crop circle as it came to be known had appeared at 4 o'clock in the morning that very day - this was confirmed by a first hand witness that had been camping on the side of Knapp hill. The gentleman duly reported that a fog had descended onto the field at about 4 o'clock and that when it had lifted at 4:30 the formation was present! *Totally amazed by these events my Dutch friend's wife Agnes had thought that I knew it was there, yet I had been guided directly to it just by using my intuition.* Luckily I had made a video of the whole amazing episode for posterity - so it is all on film, including the stunned reaction and questions! We then drove back down the way we had come and stopped momentarily to investigate a second hidden older crop circle near to the road. After some time we drove to the Woodborough hill side of the Eastfield and parked the car, and then excitedly made our way into the fresh circle. The pristine condition of the circle was amazing. I dowsed the energies and it was like a vast flowing stream of energy which, captured on video, actually twisted me round at one point as I was following the line. The whole design was reminiscent of a spaceship with a field around it or an eye. The crop circle community decided to go for the eye as a description, but to me it was a spaceship, but it was certainly a very impressive formation of considerable magnitude.

I had a very interesting conversation with Derek Carver, one of two

brothers from Newcastle, who were in the formation together with a lady cyclist. He related a story to me about how his brother had witnessed the phenomenon of the snail formation at Milk Hill forming the year previous. At around 3 to 4 o'clock in the morning they had seen lights in the sky and a bright beam of red light had hit the crop, lighting it up. It then broke off into 16 or so small luminescent green balls of light, which then wove their way around and through the crop. His brother at the field edge at the time related a story that one of the green balls of light approached him through the crop, was aware of him standing there, and then retreated back into the crop. Upon completion all the balls of light came together in the middle and then shot skywards. Upon dawn breaking it was revealed that there was the snail formation.

Several other people have since reported the same phenomenon. But in terms of hard evidence, Steve Alexander, the famous photographer of crop circles, captured for the first time one of these moving balls of light on video in 1991. He was able to track down the tractor driver in the film that he shot who confirmed that the unknown mysterious object had indeed flown over his head. The driver was much relieved as he had been subject to some ridicule by his mates in the pub. Yet, Steve was able to silence them, much to his own amusement, by the evidence he capture on his video camera! In 1992 two German crop circle enthusiasts managed to capture another unknown moving ball of light in a similar field again during the daytime and close up. Both of these amazing pieces of evidence are readily viewable on video.

Balls of light began to become more important in observations and in people's witnessing of how crop circles were formed. This culminated in the infamous Oliver's Castle video showing balls of light apparently creating a glyph formation. It was exactly what I had come to expect from my research, here indeed was the very Holy Grail of video evidence. Yet mystery surrounded its authenticity from the beginning and even after prolonged debate within the crop circle community, the film to this day is still the subject of much controversy. Thus imagery without credible testimony is interesting, but not conclusive.

I had become acquainted with Peter Sorensen a well-known Californian summer resident at the Barge Inn and a first rate flying videographer. He had laboured each season to capture unique footage of the formations from the air and no season went by without purchasing one of his tremendous videos of the previous season. The X-files and the Sky TV show *Sighting* did much at this time to popularise the

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phenomenon. Steve's photo work featured in the X-files and Peter was a regular contributor to the Sightings show on several occasions, especially when the Oliver's Castle debate was raging. I count myself lucky to know these people without whom evidence of much of each season's *miracles* would be lost. Another person that taught me much in those mid 90's days at the Barge was the one and only *Ilyes* - her inner perceptions, intuition and challenges to my entrenched, yet totally unaware, 3D material view helped me to grow spiritually. I also was privileged to share many a microlight adventure with my Swiss friend Werner Anderhub and his German colleague Ulrich Kox who's dogged persistence in recording each season's finding was of inspirational proportions. Piece by piece the evidence unfolded and conclusions were drawn.

Early on in my research two people had reported that there was a *chirping of cricket's* sound and that the crops simply swirled and lay down within a space of five seconds. Colin Andrews himself and Pat Delgado, who was an electrical engineer, had recorded strange electrical phenomena in circles and recorded the very same chirping noise. The chirping noise is a phenomenon that can be duplicated by the use of microwaves. Pulsed microwaves cause a popping in the ears which, being very rapid, appears to be very similar to crickets. This was an early clue that *planker's* were not entirely responsible for all the circles.

It was quickly realised that some form of microwave energy was being used to soften the crop. Dr Levengood in America and co-workers Nancy Talbot et al, were busy starting to take samples from workers collecting stems from inside and outside crop circles. Control samples would be taken from outside the crop circle plus samples from inside. One of the early pieces of evidence from this scientific research was that *the nodes of these circle plants had been blown*: some form of internal process had caused the plants to be artificially heated up. The water vapour escaping at the weakness of the nodal point had caused the nodes to pop and, in some cases, char. The crop was often bent at an impossible angle above this point yet not broken. Cells were seen under the microscope to be elongated on one side thus causing the bend. This became known in the trade as *magical bends* and was an early indication that the crop circle was 'genuine'.

It was conjectured that a form of flash heating would occur caused by the microwave/light beam phenomenon described above. This causes the plants to soften, much as we use steam to soften beech wood to make

furniture, and then bend without breaking due to the sudden growth of cells on one side. I then quickly realised that a vortexing magnetic field interacting with the beam would cause the plants to bend and swirl in a very precise manner. This would then cause the crop to lay down, as reported. But who or what was doing this, still remains a mystery to this present day. It was definitely some form of intelligently guided energy using a preciseness of computer proportions to execute perfect advanced cosmic geometry. Where undulations in the landscape caused imperfections this was followed in the geometric pattern. A projection of a two-dimensional shape image onto the crop would follow the undulations and give the observed distortions at points of unevenness.

Later I was to investigate hyper-dimensional geometry on a rather interesting set of computer mathematical programs, available under the name *Polytopia I and II*, which project higher dimensional shapes onto two-dimensional surfaces. The effect is quite stunning and, when rotated, quite hypnotic. It occurred to me that the same as higher-dimensional energy forms could be used to give the human observer a shadow picture of something that is occurring in another dimension.

At this point the hoaxer's, *Team Satan* et al (the name says it all!) at this time were really beginning to muddy the water and annoy a lot of the genuine researchers, myself included. But to my utter amazement I found that I had moved on from just trying to prove whether the circles were man-made or not. At one important juncture, and this is how this phenomena works, key insight is given by various individuals. Ilyes, who had become a temporary resident at the Barge Inn each crop circle Summer during the mid-90's, had stated in front of myself and a couple of other researchers - *that all crop circles were genuine!* There was a stunned silence but, as with every good teacher, when I went away and thought about it I understood what she meant: *if we regard this phenomena as purely an interaction between consciousness and matter, then all crop circles are indeed genuine. The agent that perpetrates the crop circle may be human, or may be of some other extraction, but the effect is the same. Consciousness has touched and altered matter.*

I now had a much more constructive and interactive view of this intriguing phenomenon. I realised in a flash of revelation that we were not just passive observers receiving information from a higher intelligence, but partners in an unfolding and remembering of who and what we really are. That if we studied these annual gifts hard and took

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an active part in the process it would lead to our own ultimate benefit and salvation. Much as the condemned man in a prison cell trying to decipher the note under the door that will set him free, I was now more concerned with the message rather than the method of delivery. I then became much more tolerant of the so-called hoaxers as I realised that this is truly an interactive phenomenon. The initial crudity of early human designs had given way rapidly to quite complex geometry in mimicry of the genuine phenomenon but, as ever, the phenomenon was always one step ahead with humans playing catch-up. But, as with babies in a playpen, we were learning fast.

I often use the analogy that the human race is very much like a young child or baby in a playpen and that the adults' cast down objects for that baby to play with in the form of geometric shapes and toys. The child picks up the toy and explores it, usually first by sticking it in its mouth. It then rattles it, looks at it, examines it and plays with it and sees what it can do. *This is very much what humans are doing with the crop circle phenomena.* It was having the desired effect, leading us along a path of constructive evolution. I have often said in the past, during both classes and lectures, that should we ever communicate with other intelligences, the universal language would be geometry. And here we have in the fields of England and around the world that very geometry appearing, that universal language in the crop. Not a message in *The Times*, that the aliens have landed, or a flying saucer sits on the lawn of the White House, but simply a grass roots indication that we are not alone. There are other intelligences out there. I started to see this in a humble enlightened way as extremely comforting.

In my own personal development, with my own formulated ideas, I was following the same path. I had become much less mechanical and more spiritual, for in the late 90's the word *spiritual* had crept very much into the vocabulary of the average croppie. Karen Douglas and Steve Alexander summed this up beautifully with the phrase '*temporary temples*', for this was the creation of sacred space using geometry and vibration within the framework of the living landscape. The patterns and energy were being shown in the very food we eat at the base of the food chain. It was a basic communication with our own inner being and simply re-connecting ourselves to the natural landscape, allowing us to leave our homes and cities and to re-explore the mystery of nature.

The phenomenon continues, the patterns are still increasing in complexity; as waves of consciousness hitting our physical shore, just as

the UFO waves come and go, so the waves and patterns of the crop circles ebb and flow. In 2001, after the mass negativity of the foot and mouth epidemic in this country, the mood was quite sombre. But as the alien face appeared at Chilbolton radio telescope, along with the returned encoded message, combined with the vast 409-circle formation on the top of Milk Hill, the largest ever recorded, people's spirits rose again. I really have become used to this phenomenon; it is now a vital part of my everyday life and I can not envisage a life without its gentle tuition. My daughter, for example, born in 1988, has lived her whole life knowing no other viewpoint! The crop circles always appear, with regularity and precision every summer season. She has herself been a visitor to crop circles for most of her life. Now as she is approaching her mid teenage years, 15 this year, study and other things have taken over, but the intrinsic beauty of these patterns and designs are firmly impressed upon her consciousness and are expressed in her mature and creative outlook. We are better people for contact with these gifts. By simply viewing and interacting with these designs they have had their desired effect, we have grown spiritually.

Since the late 80's regularly on my physics laboratory wall I would place the latest crop circle photographs and images. This was usually met by great interest from the students who had their lessons there. Together with pictures of Stonehenge, Avebury Circle and the megaliths, the circle phenomenon is inextricably linked to our own collective physical past. By simply viewing the past and the present together, we can gain an insight into our possible future. Even the very measurements used in crop circle formations turn out to be the same measurements used to align the megaliths. This link has caused an explosion of further research in recent years into the meaning of units and measurement and a re-discovery of lost knowledge. Including that of the Mayan Timekeepers, with their incredibly accurate counting system, precision archaeo-astronomical records, short/long day count calendars and belief in *Hunab-Ku*, the one giver of movement and measure.

I make no apology for writing this chapter in a first person narrative as this phenomenon has had more effect on my own development than any other I have investigated. One feels a personal connection to the fields, land and the circles, which once stepped into like Alice causes a transformation of perception and paradigm. Crop circles have been a perfect study guide. They have helped my investigations come to fruition as I have explored a myriad of intellectual avenues from sacred

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geometry to fractal mathematics, the laws of chaos to hyper-dimensional geometry, exotic propulsion systems, to the very nature of time and space. In my own investigation into answering my own questions, primarily one of what happens when we die, I have found definitive answers. For when I found the photograph of Alexander Baillie Kell in March 1999 as detailed in my first book *Rebel Spirit*, I had already been prepared to receive the information by the unfolding of the crop circles. I had gone from mechanistic scientist to quantum consciousness researcher. I was ready to receive the information and make the best possible use of it. Now I hope to publish my original thesis, *The Intelligent Universe*, as *Forbidden Science* for the interaction of consciousness and matter is of primal concern to the evolution of us all and in doing so I am merely playing my small part in this new renaissance of human spiritual understanding.

Chapter Nine

The Rise of Man

The human race knows much more than it ever has, but even though we know a whole mass of intricate detail we are still no nearer solving the big questions. One of those big questions is 'Exactly where do we come from?'

Since the discovery of the first fossils of human ancestors in the 19th Century, anthropologists have been trying to reconstruct the human family tree. It is very difficult to determine whether fossils represent direct ancestors of humans because classifications based on only a few teeth or fragments of skull bone are inconclusive. There is much debate among anthropologists about the creation of new *genera* (the plural of *genus*, a taxonomic category that includes a set of closely-related species) and species and which of the known creatures might be ancestral to humans. Therefore, the human family tree is an amorphous entity that changes with each new discovery. In 1999 near Lake Turkana in Kenya palaeontologist Maeve G. Leakey unearthed the latest addition to the ever-growing list of human relations, a group that includes the well-known Neanderthals and much-publicised "Lucy." Leakey proposed the introduction of a new genus and species, *Kenyanthropus platyops* and sparked renewed debate about just what the human family tree looks like.

It is very difficult to explain the appearance of the human race as it presently stands. *Homo sapiens*, wise men, is perhaps the most arrogant title ever chosen to represent the human race but, quite aptly, is very accurate for in our own arrogance we do consider ourselves the wisest of men. *Homo erectus*, our direct ancestor and *Homo habilis*, his ancestor may disagree with our statements, but certainly *Homo sapiens* as beings have existed for no more than a quarter of a million years.

This in itself is an incredibly short span of time geologically. We can trace our split from the ape family back to some eight to ten million years, but the fossilised evidence is extremely rare. So much so that the

whole of human history has been pinned onto approximately a dozen fragments of skull and skeleton with various rival professors claiming that their classification and theory is correct. The latest techniques of DNA sampling have proved to be useful in tracing the story back this past quarter of a million years, but unfortunately DNA de-natures over time and therefore is a very poor tool in dating samples from previous times to that. We can however, work from the living population with its strange diversity of humans, to trace our ancestors. We know that the mitochondria in animal cells (for those who are not biologically inclined, the mitochondria are little organelles in every cell of the human body and are responsible for respiration, that is generating energy from food glucose substrate), especially in all human females, are the same. Therefore remarkably all human females are directly related to a single mother.

Scientists have named this single mother Lucy. She lived in Kenya in East Africa approximately 200,000 years ago. She was approximately 3

Below is one of the latest versions of the human family.

Key:

Ar. = Ardipithecus

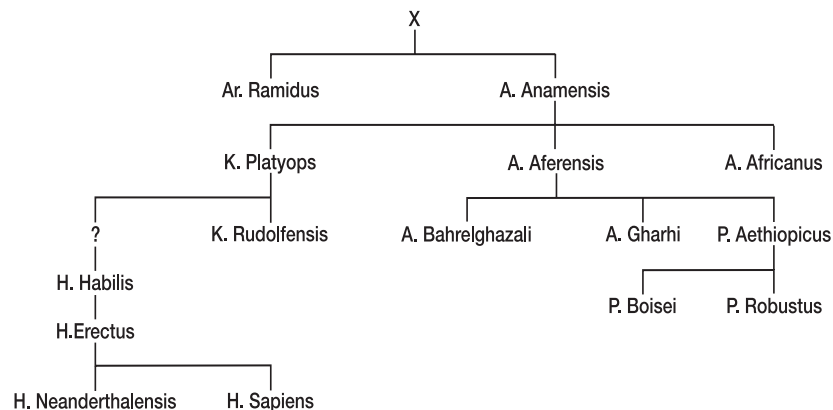
A. = Australopithecus

H. = Homo (the genus that includes our species)

K. = Kenyanthropus (the new genus proposed by Leakey)

P. = Paranthropus

X = Unknown ancestor to chimpanzees and humans around 5 million years ago



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feet high and upright in stance. She gained the name from the fact that the anthropologists were playing *Lucy in the Sky with Diamonds* on the radio when they discovered the fragments of bone. With natural evolution as the mechanism for producing modern man it is hard to believe that we are all descended from one single specimen. But diversity of breeding shows, for instance with the domestic dog, that a wide variety can arise fairly quickly given specific breeding techniques and *conscious direction by breeders*.

This begs the question, is the same true of the human race? For to achieve such diversity in such a short space of time would require some form of manipulation. If that manipulation was self-imposed then we must look for a genetic answer for the wide variety of humans. We still cannot explain certain basic anatomical differences - for example the female ape has no clitoris! Therefore Darwin stops with the apes, for the evolution of this important sexual organ cannot suddenly come from out of the blue unless possibly initiated through genetic control. We ourselves are busy cloning various species in our laboratories, including humans at this very moment. Therefore, we too are playing at being God, for better or for worse. One has to ask, did this happen in the past? We simply do not know, for we have such vast gaps in our knowledge that we simply draw a blank past 5,000 BC.

We are now beginning to appreciate that there may have been higher intelligences on the Earth before our epoch and that the inter-glacial stages of the four Ice Ages may have given rise to quite complex civilisations. These civilisations, being marginalised by the ice, would have flourished in positions that are now under the sea. Graham Hancock's latest book, *Underworld: Flooded Kingdoms of the Ice Age* details some of these exciting new discoveries of ruined cities under the sea. In our ignorance we have gone through several phases of thinking that the human race is the best thing since sliced bread. Never was it worse than in the Middle Ages, when we thought everything revolved around us. Even the whole universe revolved around the Earth and that we were the centre of everything. Now, as we are at the beginning of the 21st century, our minds are changing and we are opening up to the awareness of a greater reality.

This reality is putting us into our cosmic place. We are powerful beings, capable of changing our own environment, usually for the worst; but, if we decided to, we could change it for the better. As such, we are evolving an awareness of this self-determination.

The conflicting evidence from various sources is very often not correlated. A particular forensic archaeologist will only know their particular specialised field. This has led to much confusion in the past. What is needed is a renaissance-type scientist with an overview of all avenues of research. Very often workers from one type of science can offer insight into another type of science, with a fresh perspective as with Ron Pearson. Those involved in that branch of science very often can't see the wood for the trees, so together we make a team - that is the message!

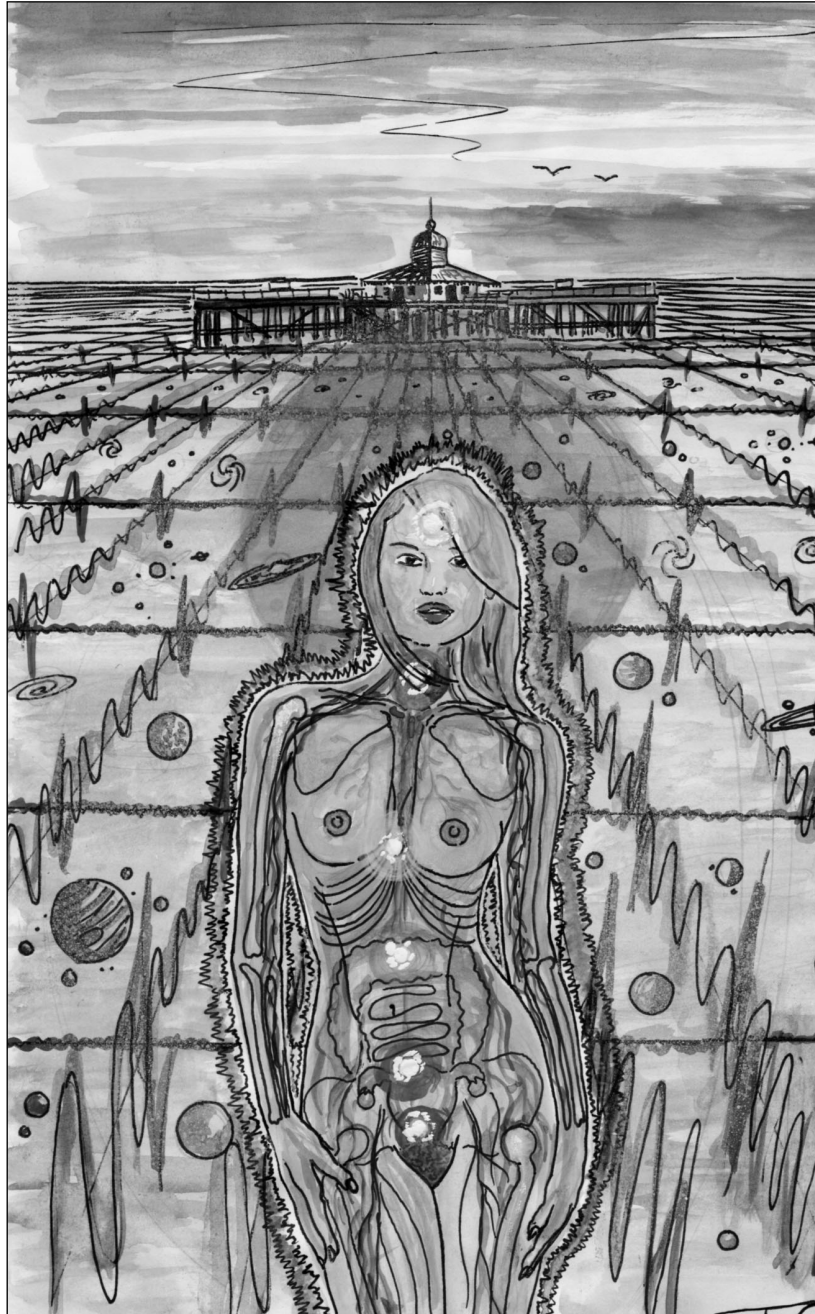
The rise of civilisation is an enigma. We can trace all our civilisations back to Sumeria (present day IRAQ, a coincidence - I think not) that gave rise to Babylon, that gave rise to Egypt and from Egypt to Greece to Rome, to the early medieval kingdoms, the Normans, the British Empire and now America. Each society formed with laws one based upon the other, but with the fatal flaw of inherent ego based conflict marring its creation, unlike the Indus valley culture of Western India that appears to have been based on the control of water and had no weapons. If our great civilizations had been based on that model our world would be quite different now. But what am I really?

Well, our actual physical body, a fully functioning space suit for navigating three-dimensional space, carbon-based, genetically unique to each individual and capable of approximately 70 years of usage, is quite a machine. That machine requires the brain. The brain is an organ in order to process information and to enable consciousness to interact with matter. We are beginning to understand that the brain and the mind are separate, that our personality and our memory are not extinguished upon death. This leads us to a new view of who and what we are - *the fact that our bodies are just instruments for the collection of information and data for our minds as we explore this 3-D environment, we call our world.* The emotional interaction between family groups and other members of the human race therefore now appears to be an integral part of that experience, if not the main part. For we can not possess material objects in eternity. One is reminded of the phrase from the Bible , *that a wise man stores up his treasures in heaven* and this seems to be the fundamental message of New Physics. Being nice to one another is what really counts!

Tri-dimensional carbon based genetic space suit

The planet Earth appears to be a planet of emotional experience, a place

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Tri-dimensional carbon based genetic space suit

where conscious beings can learn many lessons. Many of these lessons are quite painful; the loss of a loved one, the divorce of a cherished partner, the birth of a baby, they are all important experiences to be explored. As with everything else, we just follow the perceived wisdom handed down in our education system, that material progress is real progress and that the many should serve the few. It is very important therefore to teach people to think, to think for themselves and to make up their own mind after reviewing all the evidence available. Control of that evidence is control of population. Therefore, it is the true power of the Internet that creates freedom of information and therefore all else. But one has to sift carefully through that information to discard the mass of disinformation that is either deliberately or inadvertently put there. It is important not to hide the evidence and not to ignore conflicting data when proposing a cherished personal theory. The last chapter has seen one such case in point. *If the experiment proves the theory incorrect, then dump the theory!*

Hidden archaeology is one such other case. Many anomalous artefacts have been found in places and geological strata where they shouldn't have been found and they have often subsequently been hidden, usually in a bottom drawer at some local museum. For example a gold chain found in a coal seam dating 200 million years ago is one such example or fossilised human footprints alongside dinosaur tracks another! This anomalous data is very important for the general view of deciding exactly who and what we are and deserves not to be hidden for convenience. We are to all intents and purposes an intelligent ape that has been genetically upgraded to create a being that is capable of having a conscious, soul memory attached. Was this an accident? Were we naturally evolved, or were we cloned as an organic robot for some activity to be undertaken on this planet? Zachariah Stichin has made famous inroads into Hebraic literature and archeo-documents showing that the stories of Genesis and of genetic manipulation may well be true; that interference from extra-terrestrial sources may have directly ended with the production of the human race.

The abduction phenomena data of the late 80's to mid 90's and interaction with the alleged *grey aliens* has concentrated exclusively on the apparent obsession with these beings for manipulating genetic material and to produce new bodies and species. Their very description of the humans as *containers* or *water vessels* illuminates an important insight into exactly what our bodies are. I still prefer the Star Trek phrase

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in which the human race is described as being 'ugly bags of mostly water', for in truth this is exactly what our bodies are! *Natural evolution cannot explain why we have a brain the size we do.* Our brain is capable of abstract thought, such as playing music. This has no useful survival potential in terms of evolution. Evolution is concerned mainly with reproduction, the selection of a mate and also the capability of self-survival through defence and fighting, hunting, gathering food and making shelter. The pursuit of abstract thoughts as expressed in the concepts of religion, art and music, are totally not within the framework of physical evolution as we understand it. This in itself is good evidence that we have been unnaturally evolved, as is the *nautical mile* as a unit, which requires a knowledge of the exact circumference of the world in order to divide it up precisely into 21 600 units ($360^\circ \times 60$).

I often use the analogy that the human race is very much like *Mad Max* in the ruins. In *Mad Max* we have a post-apocalyptic society that has reverted to a semi-form of barbarism combined with technology. The human race may be one such artefact of such a process. That a high civilisation existed and was destroyed on this planet, leaving small human creatures to survive and make their own way as best possible. Our collective amnesia of the event makes it very difficult for us to pick up the pieces. This collective amnesia may be a natural effect caused by the reversal of the polarity of the magnetic field of the Earth every so often, for when a pole shift occurs it may well reverse the flow of electricity and therefore electron connections within nerve endings in the human body. Or it may well be simply the inability to record data in a form that can survive and be studied by subsequent generations - imagine waking tomorrow and finding no books, no CD's and no computers, plus no memory! If a polarity reversal is the culprit then this may well cause a collective amnesia to occur and therefore the whole human race may periodically have had its mind wiped, just as a tape recorder can be wiped with a magnet. We then have to pick up the pieces from scratch every so often, so the cycle of rise and fall would have carried on over a number of centuries, if not millennia.

Picking up the pieces would not be very easy to do, for even if we stored the information as books we would not be able to read. Therefore we must think of some other *fractal way* of encoding the information of our civilisation, such that we can re-piece and connect together the whole from the one part. One such edifice appears to do this and fulfils the criteria, and that is the Great Pyramid at Giza. The Pyramid of

Cheops, or Khufu as it is called, is a monument of universal proportion: it is composed of approximately 2? million stone blocks. No firm at present on Earth would undertake to build such a project. *We do have the technology, but simply not the economic will power for such an undertaking.* Here we see the perfectly possible example of one such method to encode vital information in a form that would be not destroyed and would enable a civilisation to rebuild from nothing. For the whole edifice is, but a giant stone encyclopaedia containing measurements precisely delineating the size of the planet, the continents and geometry, latitude and longitude and basic measurement, all of which can be deduced from first principles. Just as the basic geometrically encoded information of sacred geometry and the crop circles enable further study, so the basic decoding of the pyramid enables further study and collection of useful information to build a civilisation.

The date of this pyramid is a point of conjecture. The Egyptians claim that it was built by Khufu, although it is unlike any other pyramid in Egypt. It has no hieroglyphics, it has a strange, multi-level construction and the building techniques defy imagination. It may well have been produced some 12,500 years ago as evidenced by the water erosion phenomena on the Sphinx as discovered by John Anthony West. Who first broadcast the water weathering phenomena to the world, but he himself thinks that this monument may go back to a further age of Leo, some 36,000 years ago, which may be nearer the mark. The alignment of Leo and the attendant Sphinx being originally a lion rather than a small Pharaoh's head joined to a lion's body occurs with regularity but, as with everything else, it is lost in the mists of time. But we can use these interesting ideas to work out our own ideas and therefore to go forward. *As with the analogy of the message on the piece of paper, it is not how the message was produced that is important, it is the content of the information that is important and, if that information causes us to think and to develop new technologies and theories, then it has to be useful to us.*

The ancient ruins around the world, many of them a total enigma, demonstrate that civilisation has been here before, that repeated cycles of destruction and advance are the norm and that our global society is just as vulnerable. Although we tend to think of ourselves as superior, we are nevertheless subject to the basic laws of chaos. Following a long rise will surely come a fall! How we cope with that fall is up to us. When examining the effect of rise and falls of population, we turn to a very interesting piece of work by Terence McKenna, who formulated a

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mathematical computer programme, based on the *I Ching*. This programme for examining *Time* turned out to look like a calendar and when the *fractal nature of time* and the *novelty effect* discovered were overlaid with the historical times zones of the human race, particular epochs of civilisations were found to coincide with peaks of the graph. Terence McKenna cleverly labelled these as 'intense periods of novelty' so we have a *norm* when things are proceeding along fairly normally, and we have periods of intense novelty when amazing things happen on many levels, from the personal to whole civilisations. He called this important idea 'Time Wave Theory'. The time wave appears to become increasingly more novel towards 2012. In fact crop circles can be seen as part of this increased novelty, UFO phenomena too are part of that novelty, human history, even the weather is part of that novelty - cycles of history repeating within cycles of history. One can see the present tension between America and Iraq as being a re-run of the medieval crusades, Knights Templar v Moslems. Even down to our own personal lives intense periods of novelty occur. It is all part of the fractal nature of time, cycles within cycles, circles within circles. All of which echoes the wisdom of the Mayan Timekeepers and the end of the present time cycle, December 21, 2012. This is mirrored in our own culture with the change over from the Age of Pisces to the Age of Aquarius.

On a personal level, taking my own past life memories and placing those memories in a time line chart I can see accurately how cycles of repeated behaviour have occurred and developed one life to the next, backwards and forwards in time. These include large cycles which coincide directly with age, year upon year, and also miniature cycles which occur over a brief period of several years, but the brief period of several years is a reflection of the whole, much as a fractal part reflects the whole. When we look at fractal mathematics we see the same pattern repeated over and over again at different levels. It can be seen in an examination of the *Mandelbrot Set* with its associated *Julia Set* patterns at whatever level the same pattern is observed. Full details of this discovery will be revealed in my next book - *Covenant General; further evidence for the continuity of consciousness*. This details the discovery of a second personal past life pattern, namely that of Lt. General William Baillie, that influences my present day to day physical life - same name, same face, same memories - again!

The biggest single anomaly with the rise of Man is that of aggression. As a species we are inordinately aggressive. This is expressed abstractly as

the concept of war and the only other kingdom to go to war on a mass scale is that of the insect kingdom, with rival groups of ants having soldiers and battles. This is part of a hive mentality. Natural dominance of territory can be seen in the animal kingdom, but animals rarely fight to the death, as this serves no evolutionary purpose. The extinction of the species would inevitably follow. Most battles are bloody, but not carried to their ultimate conclusion. With humans we have the abstract concept of revenge and retribution, of total genocide of populations and yet despite that, because of our rapid reproduction rate and natural fecundity, we are able to replace populations of humans very rapidly. Cambodia under Pol Pot was decimated with an estimated 2 million deaths in the killing fields, but within ten years the population had not only recovered, but doubled beyond the previous number before Pol Pot. The capacity for human regeneration is quite incredible.

One then looks at the human body as being a remarkable machine. The human reproduction rate is rivalled only by that of other mammals, such as the mouse or rat, for a human female can become pregnant 13 times a year. This ability to populate and to overtake is part of the success of the human race. The human body in terms of longevity has been stretched to twice its natural limit. The average life span would have been 35 years with hard use, with wastage due to disease and such like, but now with the advance of technology and medicines we have pushed that limit to nearly 80+ years. With future genetic manipulation we may be able to create bodies that last 200 to 400 year as we discover the process of ageing and how to limit it. Quite, what we would do for 400 hundred years remains to be seen? For example, the whole of television is only 70 years old, so therefore if we spent our lives watching endless repeats we would get bored very quickly.

The natural propensity for all living cells is to die. This is the basic programme, to self destruct. The mechanism must be continually overridden in order for an organism to stay alive. The signals must be stay alive, stay alive, stay alive, otherwise the cells die and then the organism dies too. As with a photocopier producing endless copies of the same object, if we copy the copy and then copy that copy, the information deteriorates and therefore the structure breaks down. This is very similar to human cells. DNA endlessly reproduces and duplicates the information but, as the information breaks down, so we get older and our bodies change. By maintaining the integrity of the information from generation to generation of cells, we can prolong our lives and this

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is the genetic work that is going on at the present time to produce longer-living bodies.

Another interesting experiment would be the cloning of human beings for, egotistical reasons, people with access to money would love to see a copy of themselves. Of course, this would become an ultimate experiment to demonstrate that identical genetic copies would contain separate pools of consciousness and that separate conscious entities would have very different personalities despite living in identical bodies. I have observed through teaching many sets of identical twins, some of whom are really also near identical in consciousness and therefore have a very close bond, but others, the majority, are really totally different characters inhabiting an identical body, almost Jekyll and Hyde characters in some cases. Therefore this demonstrates that the conscious entity inhabiting a human body can vary immensely from the genetic body itself. An experiment producing ten individuals that are identical should be able to reproduce this phenomenon as predicted. This may be considered as good evidence that consciousness attaches itself to matter in order to develop and that as individual fractals of the one universal consciousness we have separate personalities and those personalities and agendas vary widely. The case of two genetic twins separated at birth in America highlights this, both, despite no knowledge of each other, ended up as firemen working in similar occupations, married similar looking wives with the same name and followed exact similar behaviour patterns with choice of food etc. They looked exactly identical physically and when they met they found their lives had been incredibly symmetrical. They had followed the same preset agenda. This agenda must have been inherited behaviourally through the interaction of consciousness with matter DNA. Likewise in my own case I have followed unknowingly the subconscious pattern of at least three previous genetically similar beings.

When one considers the idea of free will and self-determination, the scariest conclusion is that in truth we have very limited actual freedom and self-determination. Our conscious mind and the subconscious have other ideas and a preset agenda very often dictates our behaviour and choices, of which we have no conscious knowledge.

We may have no say in this matter, for nature will always follow the optimum pattern and most efficient design. The human eye is a good example. The human eye has as its closest relation and relative the eye of a squid! This vital organ is highly evolved, can see in colour and has a

very similar structure to the human eye. Two very different biological creatures have given rise to the same organ. The one difference is that the squid's eye is wired up from the back, such that the nerve connections from the retinas to the optic nerve go directly behind the lining of the retina. In the human eye the connections go forward and meet at the blind spot, which is where the threads of the individual nerves weave together to form the optic nerve, which plugs directly into the brain. The use of an upright stance to see and have an advantage, the placing of all sensory organs into a mobile head is a basic natural evolutionary trait due to terrestrial gravity. The walking on two legs using the minimal number of appendages to carry out locomotion is again an efficient evolutionary solution. So therefore, quite naturally, if we ever met any ET's they would look very similar to us; we would easily recognise the humanoid form, for it is the most efficient form for navigating the surface of a sphere suspended in 3-D space and subject to the Law of Gravity. If we were to re-enter the oceans as our mammalian counterparts the cetaceans did some 50 million years ago, we would rapidly evolve back into a dolphin-like creature. The dolphin has the largest brain capacity of any animal apart from the human and therefore we conjecture that the dolphin may therefore have higher intelligence? As one worker said, 'You can't have a brain that big and not get up to anything for some 25 million years!'

It may be that the dolphin has internalised its technology, as we are discovering? *Externalising our technology through machines simply makes us weaker.* To internalise our technology through psychic abilities, development of our bodies is a much more natural approach and everything we do in that route strengthens our body. *It is really a choice of, do we want to be cyborg or human?* Socially the hive mentality also plays its part. We have a tremendous psychological battle between the forces of authority that want a hive-like mentality with little grey worker robots all playing their part in a hierarchy - the many serving the few. This directly conflicts with the individuality of the human spirit, the fact that we are all different, we do have different abilities and we do have separate personalities. Again, this seems to be an eternal battle of cosmic proportions, the individual versus the hive.

Both camps have their champions and this battle will always remain. Most humans have a social conscience, which will override their individual survival mechanisms for the good of the group. This *selflessness* is often exploited by those few in power without conscience,

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society's immoral elite, despots and dictators all, that have littered the world with their discarded victims. Incredibly we allow this to happen in an endless cycle of reiteration. For more sinisterly and for the good of society, atrocities will be committed by perfectly normal people, who have been ordered to do so and so we hear again the age old phrase - *we were only following orders*. Yet we are all responsible for our own actions and the excuse of delegating that responsibility to others in order to ease one own conscience is no longer acceptable. It is one weakness in our character, which we must always fight against and be aware of. No atrocity can be justified for the common good and history to its endless shame is beset with such cases.

We are now in the process of rediscovering who and what we are. We are exceptionally powerful, spiritual beings having an earthly existence; we are angels in the bodies of apes and, just as with real angels, some are killer angels. The universe allows us to evolve and to experience different situations. Over many lifetimes we see the same problems from different perspectives. We play the role of victim and the role of aggressor. We evolve, collect and process information. The real purpose of our existence on this planet appears to be simply to experience all that can be experienced and, as with time wave theory, as the pendulum becomes more and more erratic and chaotic, the excesses become greater, the death count becomes higher. And, as with the cycles of time, this will come to an end - and this too shall pass. For we are fast approaching 2012 and the beginning of a new cycle where we have the cosmic opportunity to transform into a new age of evolution and understanding. We are the architects of the future not the victims and as with a quantum universe, what we wish for, is what we get. What wonders will our collective psyche manifest? We shall see...

Chapter Ten

The Geometry of Immortality

When we look around the Universe in order to find a basic mechanism that is capable of transferring information through the death point, we are immediately struck by the mathematical powers of the *phi* spiral. In sacred geometry the first beginning of constructing the Universe is to take a point: from the void comes the point, a singularity. The point expands equally in all directions of the plane into a 2D circle and this becomes the first basic shape of creation. The circle divides the outside from the inside; it mirrors the whole yet divides off the individual from the whole. In three dimensions of space this translates into a sphere, *for the world whirled into existence!*

The only thing the circle can do is to divide itself into two, to reproduce itself, so the next phase is for the circle to produce another circle, which touches the centre of the first circle. We now have the famous diagram of two interlocking circles such that the circumference of each circle is identical and touches the centre of each circle. The central shape, which is an ellipse, is the sacred shape known as the *vesica piscis*, latin for *bladder of the fish*. This is the birth channel of all shapes. It is also the Christian fish symbol, the ark or arc of the covenant, an ark being a pun on the geometric arc, part of the circumference of a circle. The *vesica piscis* gives birth to a third shape, which is the triangle. The triangle is a return to unity and to strength and structure. It reiterates the strength of the whole, it is the first stable shape after the whole. This is born through the *vesica piscis* by joining a straight line between the two centres of the circles and then constructing diagonal lines to the top of the *vesica piscis*. Similarly, another triangle can be drawn symmetrically upside down within the *vesica piscis* and a greater triangle can be created by extending the diagonals to the bottom circumference of the circles and drawing a third line to make a great triangle of four

small equilateral triangles. All lines of equal length, all perfect and all automatic, thus giving unit to measure and the number 3 to the world.

The next shape born is the square, which is an extension outward of the *vesica pisces* and this represents the physical material world. Two squares delineate the sacred shape bounded by the diameters of the two circles and joined by two lines of unit length top and bottom. The number 4 is the number of matter, it is a square world, which translates to a cube in 3 space. Incidentally, the ratio of the diagonal of a square to the unit length of its side is the square root of 2 ($\sqrt{2}=1.4142135\dots$). The diagonal across two equal squares ratio to the unit length of its short side is the square root of 5 ($\sqrt{5}=2.2360679\dots$). And the ratio of a line drawn length wise within the *vesica pisces* to the line of unit length across it, is the square root of 3 ($\sqrt{3}=1.7320508\dots$). So, we see that the root of harmony and proportion can be derived fundamentally by simply placing two circles together!

To extend our journey to the numbers 5 and 6 we need to extend the circles to three. By adding a third circle co-joining below the other two circles we can construct a pentagon. The pentagon contains the mystic pentagram with its beautiful five-pointed star and five traditionally is the number of life, *5 alive*. A rose, an apple sectioned horizontally and a starfish all show this perfectly. The word *phi* is incorporated in the word *five* spelt phonetically - *phi-ve*. The pentagram is the sacred shape associated with the *phi* spiral. The obsession with occult groups with this shape is based around its connection with the ratio 1.6180339... a proportion used successfully by the Greek sculpture Phidas and thereafter called *phi*, commensurate with the Greek letter of the same name. This can be derived simply by the mathematical ratio of the length of a short line within a pentagram divided into the length of the next larger line making its construction. The irrational constant *phi* going on to infinity is its product. This can be reiterated over and over again at any level of magnification, thus becoming the ultimate fractal unit! Stars within stars within stars. It is also found within the Fibonacci number series 0 1 1 2 3 5 8 13 21 34 55 89 144... etc, by dividing a lower number into the next higher number. Other interesting data on *phi* are gathered in the appendices for further study - its importance can not be stress too much!

To continue our journey into numbers in order to understand the whole of number, we journey on to 6. Six and a sixth part of the circle is the natural shape which is deduced by using the radius of the circle

containing the shape, for the radius will divide the circumference of its own circle precisely six times. This facilitates a hexagon if straight lines are used to join up the points so constructed. Six is the number of structure, function and order. It is no coincidence that bees use a hexagonal shape for tiling and making hives for, along with the square a six-sided figure will tessellate with regularity. The three figures that tessellate are therefore triangle, square and hexagon. These are regular tessellations and require no other joining pieces. Tessellation is a reiterative tile pattern and comes from the Greek word for tiling. To tile a surface is to completely cover the surface of the plane. A hexagon is really a double triangle and therefore the triangle is the basic staple shape that gives rise to a hexagon, which is its logical conclusion.

Proceeding onto more complicated shapes, we come to the heptagon and the heptogram within the heptagon, which contain seven points. Seven is the number of spirit, or God, or mystery; it is the enchanted virgin for 7 cannot be entered perfectly into 360 degrees, but it gives a reoccurring fraction and therefore it can never be entered into in whole numbers. Seven is also the number of radiating arms of light in the crown of *Liberty*, the seven colours of the rainbow enlightening the dark world. Seven is the number of mystery. Seven in the numerology of the Greek alphabet was the name for Athena, 777 thrice virginal. The Greeks played number games as they understood that mathematics was the key to the structure of the universe and therefore mathematics was really the only subject worth studying, although all things are mathematical - art, music, even the structure of poetry and language can be reduced to mathematics.

Moving on to 8, we come to the double square, which is the octagon. Eight was considered the perfect number and is indeed so in the Periodic Table, for all atoms with 8 electrons in their outer shell are inherently stable and form the inert or noble gases as they are called. This is because they do no chemistry, they do not take part in any reactions: they are therefore inert. They are self-content and therefore perfect. Jesus in Greek was Ichthus, which is the fish, harking back to the *vesica pisces*, and the numerology value of Ichthus was 888 which is thrice perfect. Incidentally, 666 which is the one number known by most people as the number of the *Beast*, means thrice dead, for 6 and the hexagon is the number of the material or non-living universe, World Wide Web, WWW, VI VI VI (coincidence?). Perhaps money is the beast that

ensnares us all! Five is living, 6 is non-living, the two parts that make up the universe. Eight would also tessellate, but only with a small square interjected between the octagons. Interlocking squares that make the 8-pointed star are used in Police badges to enforce the law. David Icke pointed out that our police have an 8-pointed star on their helmet, which means we are in charge of this place. The square, the number 4, a circle with a cross within and four squares together making a large square, have been used by various cultures to represent home, the place where we live, the Earth. By stamping another square on top of this square we end up with, *we are the people in charge of this place* - authority emphasised by symbolic geometry.

Moving on to the number 9, the n'th degree, the final number, the largest single number, the highest possible attainment, we can see how its influence pervades our language. For we *dress to the nines*, we are *on cloud nine*, the ultimate punishment is the *cat o'nine tails*, General Lee even signed the surrender document at Appomattox Court House, Va on April 9, 1865 and he signed his final order of surrender, Special Order No 9. Being Masons, as many Americans are and being founded on Masonry, numerology plays a large part in the laying out of the landscape. This was a direct inheritance of the Knights Templar philosophy and ethos, to make heaven above, on earth below and in its own perfect mirror image, thereby reinforcing the landscape with pentagonal geometry, pentagrams and using numerology including reiterating the numbers 11 and 13 over and over again. As with the Twin Towers in New York, a giant number 11 with 110 floors in each tower and built to a Templar unit of measure! For their main worry was that their society would not be stable and therefore they used the only intellectual tools they knew to create this stability; the inherited wisdom and knowledge of the ancient classical world. The 9-pointed star or nonagram within the nonagon forms a pattern of completion. It is three times three, three as a sacred number reiterated three times; a beginning, a middle and an end - reiterated three times! It is the springboard to infinity and all other number, for when we come to 10, we merely repeat our number system by adding a zero.

Together with prime numbers, which form the basic scaffold of the universe, as ably demonstrated by Dr Peter Plichter in his book *God's Secret Formula*, we can see that there is an all encompassing mathematical structure for the whole of the universe. Therefore if we are looking for a mechanism for immortality then surely that mechanism

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must be on display within the context of the information just given. The prime candidate for this is the ratio of *phi* and especially known as the golden section. But it is when it is reiterated into a spiral that we can glimpse the mechanism for survival. The number sequence, which gives the growth spiral of everything, is quite simple to deduce. The ancients knew this very early on, but it was the Italian mathematician Leonardo Fibonacci (Phi-bonacci!) who re-discovered it in the Renaissance era and it now bears his name - *The Fibonacci series*. To construct this we start with zero and move to 1 as we have discussed before and then sum these two numbers to get 1 again, then we sum those two numbers to get 2 and then sum these two numbers to produce the next and so on ad infinitum. But the pattern is revealed when we place this into a two-dimensional plane as squares we see that the squares move around in a spiral. Starting with the zero point we place a single dot; we then construct a single square; moving to the right we construct another single square of the same size; moving below we then construct a square 2x2 such that it touches the first two squares; moving to the left of the paper we then construct a square 3x3; moving above the construction we construct a square 5x5; moving right we construct a square 8x8 and so on, always moving in a clockwise or anti clockwise spiral, moving to the right or left as we reiterate and pattern grows larger.

The pattern can be seen universally employed throughout nature. Flower petals use the Fibonacci number; the seed head of sunflowers use complex Fibonacci spirals. *Phi* is found in the nautilus shell: It is the perfect growth spiral because it maintains its equilibrium. In my bathroom I have a *phi* spiral seashell which looks to all intents and purposes like a soap dish, but it balances perfectly on its centre and one can see through contemplation that this is a worthy mechanism for survival. This is nature's ultimate spiral. Many other growth spirals occur for example the Egyptian one seventh spiral, but I would argue that the *phi* spiral is the supreme natural spiral. The seventh part of a circle, 51.428571...degrees, is close to the perfect corner angle of a pyramid. The geometry of the pyramid follows the *phi* ratio such that the slope will be for example 89 units and the base will be 55 units to the centre of the pyramid. As we have also seen earlier on in the book, pyramid shapes and this ratio magnify and intensify ley line energy, this being regarded by Chinese cultures as *chi* or energy for life. It therefore seems that the use of the pyramid shape has a fundamental interaction with this life force.

What has all this got to do with survival? Well if we look at classic biology we understand that the centre of every cell in the human body, apart from red blood cells, has a nucleus, which is the minute brain box of the cell if one needs an analogy. Within the nucleus of the cell is contained the DNA. DNA is short for DeoxyriboNucleic Acid, which is why we use the acronym DNA, it saves a lot of time and bother. Really one needs to visualise, thanks to Francis Crick and James Watson, a *double helix spiral*. For the double helix spiral is composed of billions of reiterated nucleic acids of only four different types commonly labelled A, C, G, T and having the chemical names adenine, cytosine, guanine and thymine.

Attached to the double helix spiral are *pentagram* side sugars. Carbon molecules being number 6 in the Element Table have the ability to join with each other to make structure and organic bodies. Of 11 million known chemicals 10 million are organic, that is they contain carbon and there are far more variations of carbon molecules than anything else.

The ability to make long chains and rings is fundamental to producing life and complex higher bodies. These rings can either be pentagonal with five carbons, or hexagonal with six carbons. Six carbons are inherently more stable than five carbon rings, but life needs to be dynamic not static. A good example is honey. Honey is made of *fructose*, which has the formula $C_5H_{10}O_5$ and is therefore pentagonal in construction. Honey finds it very difficult to crystallise in a regular pattern and therefore has various degrees of runniness from semi-solid to liquid. Glucose, on the other hand, in the form of glucose crystals is a C6 ring and therefore hexagonal in structure. Glucose, having the formula $C_6H_{12}O_6$ has no trouble in crystallising and making regular hexagonal crystallised shapes. When we look at sucrose, which is the common sugar we place in our tea, we see that this is a combination of fructose and glucose together, having the formula $C_{11}H_{22}O_{11}$. Pentagram sugars are therefore obviously mathematically linked to the *phi* mechanism and the *phi* spiral.

The structure of the pentagram has been discussed in the crop circle section and therefore the intricacies of the ratios and its relationships to the human body have already been made available to the reader.

The whole DNA molecule can therefore be seen as a wound antenna to do with *phi* ratios. To save space the antenna is further wound with spirals within spirals. Incidentally, the link between spirals also extends to the crystal kingdom with quartz. Radio wave interaction with quartz

crystals is now well understood and established. The interaction of life force energy with crystals is becoming well known and practised by a large number of the population now who are rediscovering old knowledge. The healing power of crystals is now being investigated, the fact that coherent light focused through crystals can affect tissue regeneration, this has been discovered recently and published for the first time.

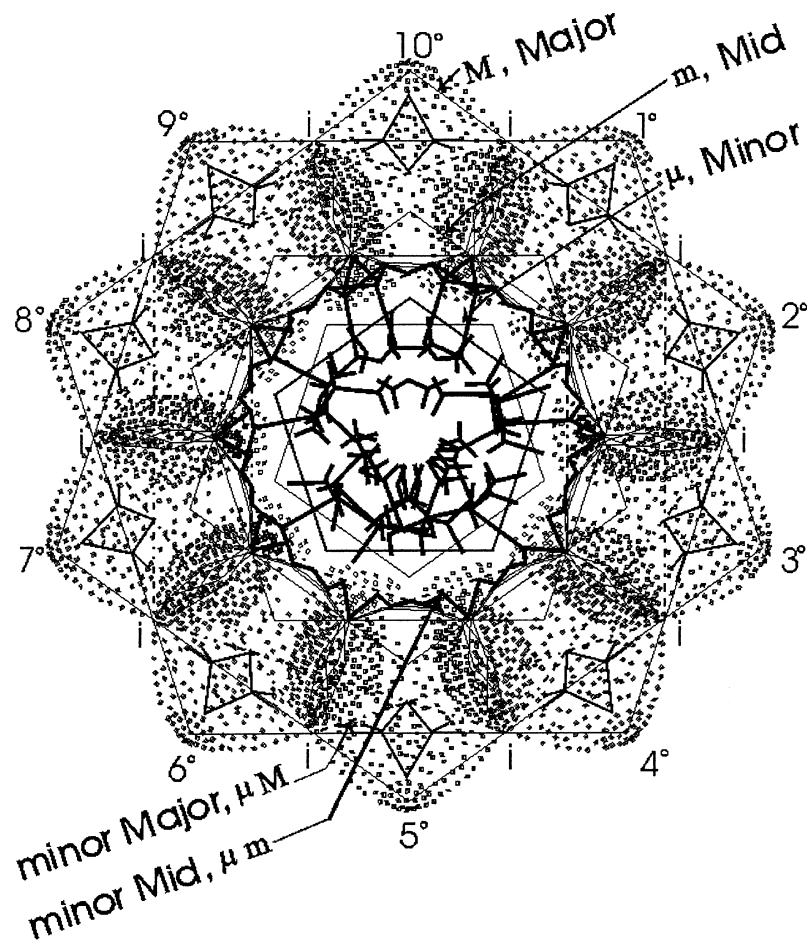
An axial view of DNA showing the pentagonal structure that enables spirit to interlock with matter

The Light Ray utilizes crystal oscillators, toroidal coils, harmonic phase shifts, and specific light frequencies to generate zero point energy, or non-hertzian time reverse waves. Biological healing is said to be many times more active in these zero-point fields than in normal EM fields. The Light Ray induces heightened activity of the *mitochondria*, a genetic structure in the cell, which can be considered the sun of the cell. The primary function of the mitochondria is conversion of sugars into adenosine triphosphate(ATP) - ATP provides the fundamental energy to power cellular metabolism. When ATP levels are raised, tissue regeneration is thought to become a possibility; a reservoir of "chi" or subtle energy increases in the body, which can then be used to overcome problems, which may be very difficult to address with more conventional natural therapeutics. But how does it work?

Silicon dioxide (SiO_2), the basic molecular construction of quartz crystal, literally sand, is composed of endless spirals of silicon and oxygen. These spirals interact with energy just as the spirals of the DNA do. The crystals appear to be sensitive to and able to amplify energy of a much higher and finer frequency. This energy may also be not only the traditional *transverse electromagnetic waves* of physics, which give us radio, but also the newly discovered *longitudinal electromagnetic waves* that pervade all corners of the universe.

Returning to DNA, the ratcheted dodecahedron structure of the DNA further reiterates and emphasises the overall *phi* construction of this particular unique molecule, for this is the very molecule of life. It is capable of splitting and reproducing, thereby giving rise to a mechanism for the continuance of biological organisms. The *phi* spiral projected as a wave can be regarded as an infinite fractal; just as the whirling Julia set patterns within the Mandelbrot set can reiterate towards infinity

Ian C Baillie



An axial view of DNA showing the pentagonal structure that enables spirit to interlock with matter

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without losing coherence and information, so the *phi* spiral can do exactly the same for it is an infinite fractal. In this lies its secret, for it can regenerate itself infinitely. When used in art, dividing up the canvas into Fibonacci proportions using the golden section, one can endlessly subdivide the canvas and space to the perfect placing of all objects on the 2-dimensional plane, thus making a very pleasing picture composition. This mechanism of the spiral occurs throughout nature for spirals, even if the motion be circular, the circle moves through time and therefore the circle describes a spiral when viewed within the perspective of time.

The spiral is capable of outward growth, which is an explosive principle, and of inward force and growth, which is an implosive or imploding spiral. The force of implosion as Viktor Schauberger so ably described, is the force of creation. The force of explosion is the force of destruction. In a famous meeting with Adolf Hitler he bravely said, 'Your philosophy is false. It is based on explosion and therefore cannot last'. In order to be self-sustaining and creative, all things should be implosive. The force of creation is an implosive one. Spiral galaxies often show this same trait, the concentration of matter gathered from the vastness of space spirals into a central ball to create new stars, which are then born through nuclear fusion as the star gains sufficient mass and lights up. The irradiating explosive force of the star is kept in balance by the implosive gravitational force. Whilst the fuel burns steadily at an atomic level the star is stable, the *ying-yang* balance of the cosmos is maintained. Once the fuel is used up then the balance becomes unsustainable and the star collapses, expanding first then collapsing in on itself with a final implosion, resulting in an *super nova* explosion producing the products of the Atomic Periodic Table, as we have already seen and discussed.

Dan Winter originally discovered the *phi* spiral wave at work in the heart. The heart muscle is itself a 7 muscle wound *phi* spiral pump. This is the secret to its function and its strength such that it is able to beat for some 70-odd years without tiring. He found that when people expressed a genuine heartfelt, unconditional love the heart muscles synchronised precisely with the *phi* spiral wave, thus working more perfectly and in tune. Conversely, when people became stressed and angry, the *phi* wave of contraction of the heart became much more erratic. Through stress, therefore, people cause their own heart conditions such as pulmonary oedema, commonly known as a heart attack. Being in tune with the

universe and the mathematics of the body is therefore highly desirable and is regularly attempted by enlightened people who meditate and follow alternative therapies in order to try and relieve stress in their everyday lives. In helping others we therefore help ourselves, for living in tune with others helps us to tune ourselves. We are part of the whole and as everything is interconnected in the universe, we are all one.

The great loss of innocence was really to do with the individualisation of beings, for we became aware of ourselves and were no longer part of the group. We therefore grew our inhibitions and defence mechanisms in order to preserve ourselves. As time passed we forgot that we were all joined and therefore we considered only ourselves. Greed is probably the number one problem on our planet. One can select through choosing either to serve the self to become *selfish*, or to serve the whole, in which case in serving the whole we then gain back tenfold that which we give out for the whole process is one of constructive resonance. Just as a laser amplifies its energy between two mirrors backwards and forwards, so we amplify our energy in giving. But this must be a two-way process for, as we give to other people who give back, then it increases but if we give selflessly to those who just take then we drain ourselves and suffer the consequences. It is no coincidence that teachers suffer a very high level of stress-related diseases and disorders, for they are continually giving out energy for free in the classroom and unless this energy is returned in some measure they become drained. Draining is a very real phenomenon and over a repeated number of years can lead to heart attacks and various other chronic ailments related to stress. Conversely, people who store their energy only work mechanically, they keep their defences up and survive little better, but still they wither away eventually.

James Redfield in *The Celestine Prophecy* indicated the logical conclusion of this argument with his classification of four energy types of people. The competition for energy he traced back to the root of all sociological problems between human beings. By competing for energy, you gain this energy by gaining people's attention and therefore some students will be a constant nuisance in order to gain attention and therefore gain energy. Other people will gain energy through sympathy and appeal to the kinder side of the being they are trying to gain energy from. When one understands this mechanism; as James Redfield has explained in his book, one can control the flow of energy. One can help to protect one's own source of energy whilst helping others and

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reiterating the resonant frequencies and thereby creating more energy through sympathetic participation with other people.

This need for energy or attention also surfaces with human beings' love of nature and the keeping of pets and other domestic animals, for animals are a great source of affection and unstinting in that giving of affection and bonding. Such is man's relationship with the domestic dog and the horse. Cats can choose to give their energy or not, they are much more independent and they choose to live with you rather than you live with them. But, as the ancient Egyptians' revered the cat and the sacredness of the cat, so we can understand that we can have an equal relationship with such a noble animal. This may be no coincidence, as geneticists have found canine DNA and are now looking for feline DNA intermingled in human DNA.

The *Charlotte Observer* reported this posted on Fri, Sep. 26, 2003

DNA reveals dogs' link to people
Humans genetically closer to canines than to mice, scientists find
PAUL RECER - Associated Press

WASHINGTON - Using a male poodle, the family pet of one of the scientists, researchers have completed the first rough draft sequence of the genes of a dog...

It was a great surprise to find that we are only made of 30,000 genes and that 95% of all our DNA is evolutionary junk. But what of the cat? Certainly the coincidence of the sphinx being a giant cat or lion facing the constellation Leo may be no coincidence. Maybe our ancestors came from the Leonides and therefore this link with the feline is a genuine, physical one? Certainly the Egyptians revered the cat enormously.

Now we come on to understanding the process of dying and, in doing so, therefore understanding the process of birthing. Both are equally important and understanding how the mechanism works as we enter the physical atomic matrix and depart the physical atomic matrix is of essential importance when discussing the geometry of immortality. With the advent of modern medicine many people have had near death experiences and survived. Understanding of outer body experiences and near death experiences is becoming of increasing interest to the majority

of the population. Previously this was really forbidden science and taboo! The movie *Flatliners* played on this emotional interest.

But now we find that experiment evidence as to the existence of an *etheric body* has been available since 1907! A one Duncan MacDougall MD of Haverhill Mass. discovered an anomalous weight loss on the point of death and reported it in the April issue of *American Medicine* that year. I equate his discovery with that of the discovery of Oxygen, which completely revolutionised the subject of Chemistry - for finding out that chemicals gained mass when undergoing combustion completely over threw previous accepted dogma. In that respect it may well be that Duncan MacDougall has done the same for new physics.

Below is the original article from the April, 1907 edition of *American Medicine*. I have highlighted some significant parts in bold for easier skimming.

Hypothesis Concerning Soul Substance Together with
Experimental Evidence of The Existence of Such Substance
by Duncan MacDougall, M.D.
of Haverhill, Mass.

If personal continuity after the event of bodily death is a fact, if the psychic functions continue to exist as a separate individuality or personality after the death of brain and body, then such personality can only exist as a space occupying body, unless the relations between space objective and space notions in our consciousness, established in our consciousness by heredity and experience, are entirely wiped out at death and a new set of relations between space and consciousness suddenly established in the continuing personality. This would be an unimaginable breach in the continuity of nature.

It is unthinkable that personality and consciousness continuing personal identity should exist, and have being, and yet not occupy space. It is impossible to represent in thought that which is not space-occupying, as having personality; for that would be equivalent to thinking that nothing had become or was something, that emptiness had personality, that space itself was more than space, all of which are contradictions and absurd.

Since therefore it is necessary to the continuance of conscious life and personal identity after death, that they must have for a

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basis that which is space-occupying, or substance, the question arises has this substance weight, is it ponderable?

The essential thing is that there must be a substance as the basis of continuing personal identity and consciousness, for without space-occupying substance, personality or a continuing conscious ego after bodily death is unthinkable.

According to the latest conception of science, substance, or space-occupying material, is divisible into that which is gravitative, solids, liquids, gases [and now condensates], all having weight, and the ether [zero point/vacuum energy field] which is nongravitative. It seemed impossible to me that the soul substance could consist of the ether. If the conception is true that ether is continuous and not to be conceived of as existing or capable of existing in separate masses, we have here the most solid ground for believing that the soul substance we are seeking is not ether, because one of the very first attributes of personal identity is the quality of separateness. Nothing is more borne in upon consciousness, than that the ego is detached and separate from all things else - the nonego.

We are therefore driven back upon the assumption that the soul substance so necessary to the conception of continuing personal identity, after the death of this material body, must still be a form of gravitative matter, or perhaps a middle form of substance [Bose-Einstein condensate] neither gravitative matter or ether, not capable of being weighed, and yet not identical with ether. Since however the substance considered in our hypothesis is linked organically with the body until death takes place, it appears to me more reasonable to think that it must be some form of gravitative matter, and therefore capable of being detected at death by weighing a human being in the act of death.

My first subject was a man dying of tuberculosis. It seemed to me best to select a patient dying with a disease that produces great exhaustion, the death occurring with little or no muscular movement, because in such a case the beam could be kept more perfectly at balance and any loss occurring readily noted.

The patient was under observation for three hours and forty minutes before death, lying on a bed arranged on a light framework built upon very delicately balanced platform beam scales.

The patient's comfort was looked after in every way, although he was practically moribund when placed upon the bed. He lost weight slowly at the rate of one ounce per hour due to evaporation of moisture in respiration and evaporation of sweat.

During all three hours and forty minutes I kept the beam end slightly above balance near the upper limiting bar in order to make the test more decisive if it should come.

At the end of three hours and forty minutes he expired and suddenly coincident with death the beam end dropped with an audible stroke hitting against the lower limiting bar and remaining there with no rebound. The loss was ascertained to be three-fourths of an ounce.

This loss of weight could not be due to evaporation of respiratory moisture and sweat, because that had already been determined to go on, in his case, at the rate of one sixtieth of an ounce per minute, whereas this loss was sudden and large, three-fourths of an ounce in a few seconds.

The bowels did not move; if they had moved the weight would still have remained upon the bed except for a slow loss by the evaporation of moisture depending, of course, upon the fluidity of the feces. The bladder evacuated one or two drams of urine. This remained upon the bed and could only have influenced the weight by slow gradual evaporation and therefore in no way could account for the sudden loss.

There remained but one more channel of loss to explore, the expiration of all but the residual air in the lungs. Getting upon the bed myself, my colleague put the beam at actual balance. Inspiration and expiration of air as forcibly as possible by me had no effect upon the beam. My colleague got upon the bed and I placed the beam at balance. Forcible inspiration and expiration of air on his part had no effect. In this case we certainly have an inexplicable loss of weight of three-fourths of an ounce. Is it the soul substance? How other shall we explain it?

My second patient was a man moribund from tuberculosis. He was on the bed about four hours and fifteen minutes under observation before death. The first four hours he lost weight at the rate of three-fourths of an ounce per hour. He had much slower respiration than the first case, which accounted for the

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difference in loss of weight from evaporation of perspiration and respiratory moisture.

The last fifteen minutes he had ceased to breathe but his facial muscles still moved convulsively, and then, coinciding with the last movement of the facial muscles, the beam dropped. The weight lost was found to be half an ounce. Then my colleague auscultated the heart and found it stopped. I tried again and the loss was one ounce and a half and fifty grains. In the eighteen minutes that lapsed between the time he ceased breathing until we were certain of death, there was a weight loss of one and a half ounces and fifty grains compared with a loss of three ounces during a period of four hours, during which time the ordinary channels of loss were at work. No bowel movement took place. The bladder moved but the urine remained upon the bed and could not have evaporated enough through the thick bed clothing to have influenced the result.

The beam at the end of eighteen minutes of doubt was placed again with the end in slight contact with the upper bar and watched for forty minutes but no further loss took place.

My scales were sensitive to two-tenths of an ounce. If placed at balance one-tenth of an ounce would lift the beam up close to the upper limiting bar, another one-tenth ounce would bring it up and keep it in direct contact, then if the two-tenths were removed the beam would drop to the lower bar and then slowly oscillate till balance was reached again.

This patient was of a totally different temperament from the first, his death was very gradual, so that we had great doubts from the ordinary evidence to say just what moment he died.

My third case, a man dying of tuberculosis, showed a weight of half an ounce lost, coincident with death, and an additional loss of one ounce a few minutes later.

In the fourth case, a woman dying of diabetic coma, unfortunately our scales were not finely adjusted and there was a good deal of interference by people opposed to our work, and although at death the beam sunk so that it required from three-eighths to one-half ounce to bring it back to the point preceding death, yet I regard this test as of no value.

My fifth case, a man dying of tuberculosis, showed a distinct drop in the beam requiring about three-eighths of an ounce

which could not be accounted for. This occurred exactly simultaneously with death but peculiarly on bringing the beam up again with weights and later removing them, the beam did not sink back to stay for fully fifteen minutes. It was impossible to account for the three-eighths of an ounce drop, it was so sudden and distinct, the beam hitting the lower bar with as great a noise as in the first case. Our scales in the case were very sensitively balanced.

My sixth and last case was not a fair test. The patient died almost within five minutes after being placed upon the bed and died while I was adjusting the beam.

In my communication to Dr. Hodgson I note that I have said there was no loss of weight. It should have been added that there was no loss of weight that we were justified in recording.

My notes taken at the time of experiment show a loss of one and one-half ounces but in addition it should have been said the experiment was so hurried, jarring of the scales had not wholly ceased and the apparent weight loss, one and one-half ounces, might have been due to accidental shifting of the sliding weight on that beam. This could not have been true of the other tests; no one of them was done hurriedly.

My sixth case I regard as one of no value from this cause. The same experiments were carried out on fifteen dogs, surrounded by every precaution to obtain accuracy and the results were uniformly negative, no loss of weight at death.

A loss of weight takes places about 20 to 30 minutes after death which is due to the evaporation of the urine normally passed, and which is duplicated by evaporation of the same amount of water on the scales, every other condition being the same, e.g., temperature of the room, except the presence of the dog's body.

The dogs experimented on weighed between 15 and 70 pounds and the scales with the total weight upon them were sensitive to one-sixteenth of an ounce. The tests on dogs were vitiated by the use of two drugs administered to secure the necessary quiet and freedom from struggle so necessary to keep the beam at balance.

The ideal tests on dogs would be obtained in those dying from some disease that rendered them much exhausted and incapable

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of struggle. It was not my fortune to get dogs dying from such sickness.

The net result of the experiments conducted on human beings, is that a loss of substance occurs at death not accounted for by known channels of loss. Is it the soul substance? It would seem to me to be so. According to our hypothesis such a substance is necessary to the assumption of continuing or persisting personality after bodily death, and here we have experimental demonstration that a substance capable of being weighed does leave the human body at death.

If this substance is a counterpart to the physical body, has the same bulk, occupies the same dimensions in space, then it is a very much lighter substance than the atmosphere surrounding our earth which weighs about one and one-fourth ounces per cubic foot. This would be a fact of great significance, as such a body would readily ascend in our atmosphere. The absence of a weighable mass leaving the body at death would of course be no argument against continuing personality, for a space-occupying body or substance might exist not capable of being weighed, such as the ether.

It has been suggested that the ether might be that substance, but with the modern conception of science that the ether is the primary form of all substance, that all other forms of matter are merely differentiations of the ether having varying densities, then it seems to me that soul substance which is in this life linked organically with the body, cannot be identical with the ether. Moreover, the ether is supposed to be nondiscontinuous, a continuous whole and not capable of existing in separate masses as ether, whereas the one prime requisite for a continuing personality or individuality is the quality of separateness, the ego as separate and distinct from all things else, the nonego.

To my mind therefore the soul substance cannot be the ether as ether; but if the theory that ether is the primary form of all substance is true, then the soul substance must necessarily be a differentiated form of it.

If it is definitely proved that there is in the human being a loss of substance at death not accounted for by known channels of loss, and that such loss of substance does not occur in the dog as my experiments would seem to show, then we have here a

physiological difference between the human and the canine at least and probably between the human and all other forms of animal life.

I am aware that a large number of experiments would require to be made before the matter can be proved beyond any possibility of error, but if further and sufficient experimentation proves that there is a loss of substance occurring at death and not accounted for by known channels of loss, the establishment of such a truth cannot fail to be of the utmost importance.

One ounce of fact more or less will have more weight in demonstrating the truth of the reality of continued existences with the necessary basis of substance to rest upon, than all the hair-splitting theories of theologians and metaphysicians combined.

If other experiments prove that there is a loss of weight occurring at death, not accounted for by known channels of loss, we must either admit the theory that it is the hypothetical soul substance, or some other explanation of the phenomenon should be forthcoming. If proved true, the materialistic conception will have been fully met, and proof of the substantial basis for mind or spirit or soul continuing after the death of the body, insisted upon as necessary by the materialists, will have been furnished.

It will prove also that the spiritualistic conception of the immateriality of the soul was wrong. The postulates of religious creeds have not been a positive and final settlement of the question.

The theories of all the philosophers and all the philosophies offer no final solution of the problem of continued personality after bodily death. This fact alone of a space occupying body of measurable weight disappearing at death, if verified, furnishes the substantial basis for persisting personality or a conscious ego surviving the act of bodily death, and in the element of certainty is worth more than the postulates of all the creeds and all the metaphysical arguments combined.

In the year 1854 Rudolph Wagner, the physiologist, at the Gottingen Congress of Physiologists, proposed a discussion of a "Special Soul Substance." The challenge was accepted, but no discussion followed and among the 500 voices present not one

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was raised in defense of a spiritualistic philosophy. Have we found Wagner's soul substance?

If we look at the process of dying as reported by patients who have had near death experiences, it seems to be a very common pattern that emerges. As the spirit is preparing to depart from the body so the person has intuitive flashbacks. Very often the phrase 'my whole life passed before my eyes' comes into play at this point. Interestingly enough, when in the middle 80's scientists constructed neural networks mimicking in silicon that which happens in carbon with our own organic brains. They were trying to create artificial intelligence, which thankfully proved far more difficult than first imagined. The famous prediction in 1978 was that by the end of the 20th century humans would no longer be the most 'intelligent' species on the planet: a new, artificial species of computer intelligence would have taken its place, shades of *Terminator and the Matrix*! As we know now, this never happened. Interestingly enough, when constructing these neural network *brains* they found that basic patterns could be remembered and recognition could be taught to machines. One machine taught itself to read when left for 24 hours after learning to recognise basic letters and words.

Several of the scientists producing these neural networks decided it might be fun to see what happened if the neural network 'died'. They therefore set about randomly chopping connections between the processors, which mimic the neurones in the human brain. To their great surprise, when they got down to about 25% connections between the actual units or chips, the neural network brain started to give off random images and signals. These images contained pictures and pieces of information that the neural network had learnt. This caused a great bemusement in the scientists concerned as they immediately recognised that this was the often described description of seeing one's whole life flash before one's eyes just before the point of death! The one particular article I read on this in *Scientific American* ended up with the phrase 'what's the betting that there is a light at the end of the tunnel?' and thereby hangs a tale. For as we view our life's events instantaneously it is almost like a process of separating out the useful bits of information that we need to store and to carry through with us. It is a process of selection: what lessons have I learnt during this lifetime; what have I experienced. The information starts to spiral around. But no information is lost

ultimately, as the universal memory machine appears capable of storing all accumulated data experienced in ones individual lifetime, so perhaps this is a genuine artefact of the physical brain closing down?

Many people report that at this point a tunnel of light appears and that they appear to be passing up this tunnel of light to the source beyond. There comes a common point in the journey where there is a cut-off point, a point of no return. Many people suddenly decide that it is not their time to pass through the veil, as they term it, and to become one with the source. Instead, drawn by earthly connections to do with loved ones or unfinished business, they often turn away and return into their bodies. One can almost imagine the etheric body being on the end of a long bungee rope, or silver chord as it is variously described. The silver chord is the connection between the physical body and the etheric body. If that chord, for whatever reason, breaks then the person does in fact pass over.

Emotion is the language of the soul

To conclude, we are now entering the realms of religion, which has been a taboo area for science for over 400 years. However, it is very important if we are to make further progress with our understanding of how the universe works to investigate the mechanisms of this phenomena and we are starting to understand that these are not just common hallucinations or imaginary phenomena. The mere fact that much of this data is repeatable throughout the world with a myriad different types of human beings from different cultures and belief systems, show that there is some common mechanism at work in this process. As we have seen, this very human experience tallies very well with Ron Pearson's theory at the beginning of the book. For if we understand that the sub-quantum intelligent grid as the basis of the universe and the source of all else, we can see that the physical world is merely a shadow projection of the universal mind. And, as holographic beings inhabiting time and matter, there comes a point where our consciousness returns to the universal grid. By spiralling through the zero point of death, but retaining the coherence of information and data gained, we therefore see a structure for immortality. For in the act of remembering not only details of other lifetimes, but of remembering one's own personality, character, emotions, behavioural traits, likes and dislikes, we are preserving our individuality.

It is often a source of great consternation that many occult groups try

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Emotion is the language of the soul

to subjugate the personality of the individual, for in controlling other human beings one must first strip the sense of self from the human that is to be controlled. This process of degradation, of de-humanisation and ultimately destruction of self is the first tool used by any system wishing to gain control over individuals. It may be that ascended masters and other very advanced spiritual beings can enter into the realm of destroying the self, of losing identity, of merging with the source. But this process can be very destructive for the average human being, for we are as a species exactly 180° from the source of the universe.

At our point of evolution and development it is very important to retain a central identity of self. In my own case, I have always been Baillie. I am a small fractal of the one consciousness, which on a clothes peg in the universe is labelled Baillie. This sense of self has been generated over many lifetimes, but has culminated in the last two physical lifetimes one as Alexander Baillie Kell, who chose to call himself *Baillie*, and his immediate predecessor, Lt General William Baillie. From a very early age this sense of self, of being Baillie, was an indefinable something that was so powerful that I had to find a means to express it and to understand it. This force of self was overwhelming, unstoppable.

Therefore we can see that this sense of self and of memory enters the embryo at a certain stage. Just as the information spirals out from life as we enter death, so the information spirals inwards as an implosive force to weld itself to the human mind brain link. Many workers argue at which precise point the soul memory enters the embryo: some workers place it at three months, others place it at just before birth, but certainly at some point there is a fusing between the mind soul memory component and the new body. The sympathetic DNA of the embryo further facilitates this, making the body compatible for habitation. DNA is the key to understanding ourselves, therefore when looking at our own personality, likes and dislikes we must look at our own DNA inheritance. This inheritance may go back thousands of generations. We are composite beings linked inescapably to our own past. Those who have not shared the same common experiences on this planet may have experiences from other planets, other dimensions, other ideas - it's a big universe out there!

As our consciousness develops it may well be that we go through various phases of being group spirits. I myself also have a common affinity with the sea and with dolphins. I have dolphins everywhere around my house. Thus, as I have discovered the remembrance of a

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Viking life, an English Civil War life and an American Civil War life, so this relationship with the dolphin must also have some relevance to understanding my own consciousness. I do not claim to have all the answers but, as in the spirit of the Japanese *Do* or the *Way*, it is the struggle to follow the path that is important, not the end result. I therefore hope that you have enjoyed the journey through this book and that you may go on to discover your own answers to some of the greatest questions of all time.

That's all folks!!!
Until next time...coming soon
"Covenant General; Further evidence for
the continuity of consciousness..."

Appendices

Appendix One:

CONSCIOUSNESS AS A SUB-QUANTUM PHENOMENON

Ronald D. Pearson

Abstract

A sub-quantum level of reality, to be called the "i-ther", is described which results from applying the two conservation laws of energy and momentum. A new creation/annihilation mechanism then appears having a self-organising property and leading to a brain-like structure. This could evolve a primary consciousness within the i-ther, which could then generate the quantum waves to produce what we call, "sub-atomic particles", together with the force of gravity. A solution to the enigma called, "wave particle duality" has therefore appeared naturally and is entirely free from paradox. In this way the i-ther seems able to generate the quantum world: the base on which all matter rests. Physics is also extended to include phenomena, like psychokinesis, presently regarded as "paranormal".

Introduction

The notion of a sub-quantum phenomenon contradicts the current reductionist view that mind is just brain-function. However, even as early as 1989, Sir Roger Penrose appears to have disagreed with this contention (1). Penrose, together with Stuart Hameroff, offered an approach they define as "panpsychism" as described in this journal(2). This view includes a "stable self-organising structure," but unlike the views to be presented here, theirs does not refer to a sub-quantum medium.

This panpsychism is a significant paradigm shift because, to the extent that most physicists think about "mind" at all, they regard it materialistically as mere brain function. Some treat paranormal phenomena more as threats to their own credibility, rather than as anomalies to be investigated experimentally. In this paper I consider paranormal to be phenomena outside the scope of physics.

Another difficulty is presented by the enigma called, wave-particle duality. A number of small holes can be made in a barrier to be

bombarded with any kind of sub-atomic particle. The intensity can be arranged so low that the particles pass through the holes only one at a time. Although one particle can only go through one hole, it subsequently behaves as if it had gone through all holes at once. It behaves like sets of waves, emerging from every hole simultaneously to produce an interference pattern, the signature of wave effects. Young's two slit experiment, illustrated in Figure 4, shows such interference patterns moving towards a screen where they produce a pattern of light and dark bands. These are due to waves in phase adding by constructive interference whilst those out of phase subtract.

Very early de Broglie was the first to propose that all particles have a wavelike nature. He also suggested that pilot waves guided sub-atomic particles, and published many papers and several books from 1952 onwards in attempts to show how quantum waves could be generated. Bohm in 1980 proposed an implicate order with "hidden variables" underlying quantum theory(3), and Vigier together with several others did similar work. Mainstream physics, however, makes no serious attempt to show how matter is organised by its quantum waves or to show how quantum waves are generated. The very question of whether quantum waves are real phenomena or merely abstract artifacts is shunned as metaphysical or non-scientific.

The pilot wave concept could not explain all observations and so, unfortunately, it was displaced by the Copenhagen interpretation. This assumed all possibilities existed in superposition as unresolved wave-functions until observed; then these collapsed into the reality of particles. At least this view acknowledged that matter was controlled in some way by a consciousness, but in 1957 Everett's *many universes* interpretation appeared. This seems not to depend on consciousness but instead requires an infinite number of matter-systems in superposition. The present explanation arises naturally from the logic to be described and is much closer to de Broglie's early concepts.

These concepts required the existence of a background medium for the propagation of waves. Notable theorists in more recent times have sought to reintroduce modified concepts of the old rigid ether, discredited by the failure of attempts made a century ago by Michelson and Morley to measure the speed of the Earth through such a medium. John Archibald Wheeler, for example, published ideas for a "sub-quantal" medium in a theory in collaboration with Professor Richard

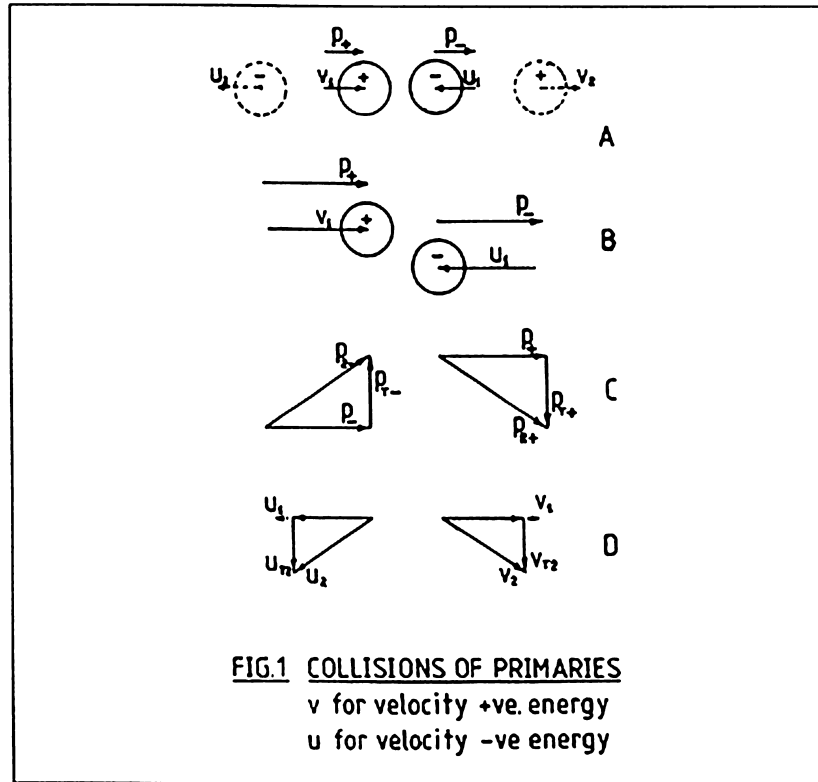


Fig. 1: At A in a head-on collision of a pair of primaries the momenta P_+ and P_- add so that neither can lose energy. At B a glancing impact adds transverse momenta, P_{T+} and P_{T-} , shown at C, thus causing extra energy of their own kind to be gained by each. Both move sideways in the same direction as shown at D.

Feynman(4). Mathematical descriptions for terms like "pre-space", "wormholes" and "quantum foam" were proposed as underlying both space and matter.

These ideas are not yet accepted as part of mainstream physics, however, probably because the model seems presently to be untestable by experiment. An encouraging feature of the present formulation is that it suggests ideas for several experiments by which it could be tested. For example, this formulation is consistent with a fluid medium, the ether, traveling with the Earth in a vortex motion centered on the Sun. An updated Michelson-Morley interferometer, such as that used by Brillt and Hall and, flown in low Earth orbit(5), ought to give fringe

shifts consistent with its relative velocity through the i-ther, thereby confirming its existence. Indeed these researchers, in 1979, obtained fringe shifts which Aspden interpreted as indicating a speed of 355 m/s -within 3% of the spin velocity of the Earth at the latitude of test(6). This result already supports the vortex model.

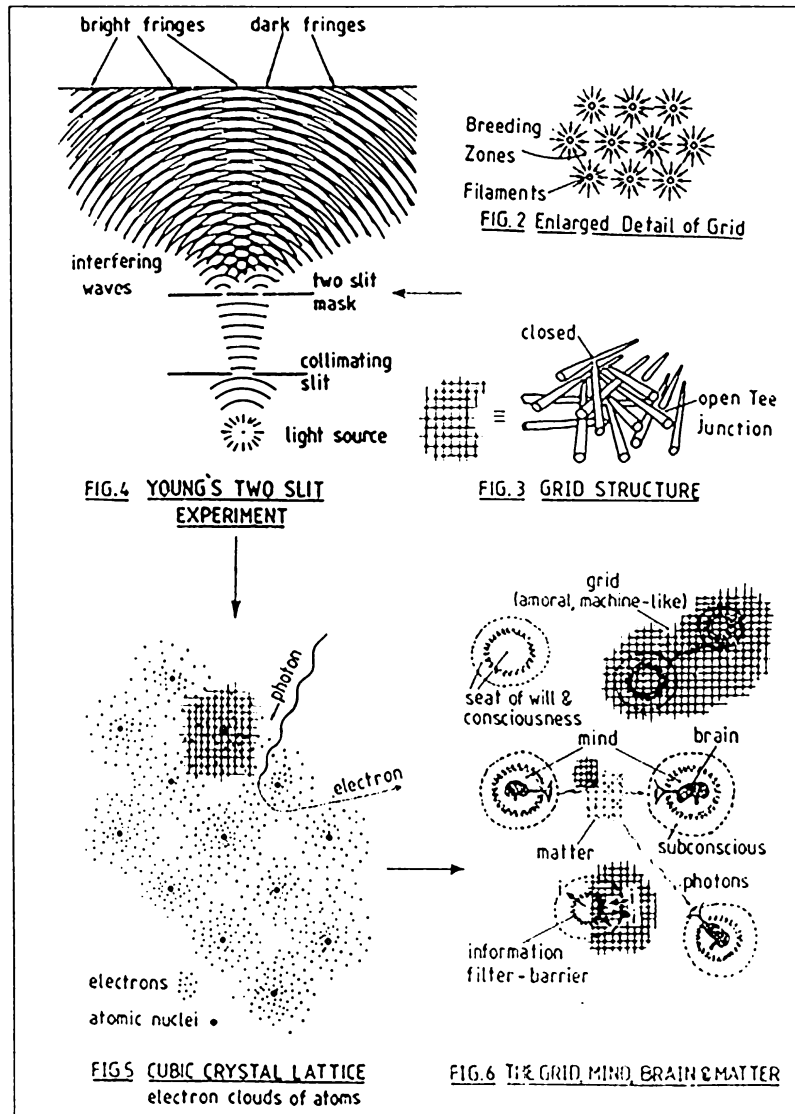
The present hypothesis evolved from an attempt to solve the problem of quantum gravitation published in 1990(7). A summary appeared in the proceedings of a Russian conference of 1991(8) and was followed by another publication in 1992(9). The latter also gives in its appendix a full mathematical treatment of the structure of the i-ther to be described. A mathematical treatment showing the link with gravitation was also included in the proceedings of the Sir Isaac Newton conference of 1993(10).

The new approach offers a reason for the way matter is organised by quantum waves and shows how such phenomena could arise. No changes to quantum theory are required, however, except where gravitation is concerned. It has also very recently been found that relativity theory can be integrated without paradox. Hence existing theory is supplemented by providing a real basis for supporting its abstract concepts.

Origin of an Alternative Approach

The impetus for this approach was an article by Professor Tryon in which the mass-energy of matter was balanced against "negative gravitational potential energy."(11) The mass-energy, however, would remain when matter had expanded to infinite distance, but here the gravitational energy was defined as zero. To resolve this puzzle one might adduce the ideas of Gibbons, Hawking and Siklos(12) & Novikov(13) who attributed a high energy-density balanced by an "intrinsic negative pressure of the vacuum".

These ideas were all part of the established Big-Bang theory in which the universe of matter arose simultaneously with space in a minute fraction of a second. A direct consequence was the emergence of an apparently insoluble problem of the cosmological constant, which predicted that all galaxies would be moving apart with accelerations fifty orders of magnitude greater than astronomical observations could allow. This value is not to be confused with the cosmological constant originated by Einstein. His gravitational theory showed that the galaxies had to be accelerating relative to our own, a prediction which was



Figs. 2 THRU 6: In Figures 2 and 3 the grid structure of the nuether is shown, and the quantum waves spontaneously generated form interference patterns, an example of which is shown in Figure 4. These specify where imploding waves are to be focused to create sub-atomic particles, and these form atoms of crystals as shown in Figure 5 (with nuclei on a square grid inclined so as not to line up with grid symbolism). A number of minds separated by information filters of the grid structure observe matter via sense organs and the brain as shown in Figure 6.

contrary to accepted opinion. He then added an artificial constant to make them appear stationary. Later he admitted that this was his worst mistake. An associated problem, which had troubled theorists for more than fifty years, was the incompatibility of general relativity with the quantum approach.

The specialist knowledge of the engineer in thermodynamics and mechanics might help resolve these problems. An attempt to produce a paradox-free theory of quantum gravitation is mounted here such that such a force of attraction could not be modeled without the re-introduction of negative energy states. Such states had first been proposed by a physicist, Paul Dirac⁽¹⁴⁾ in the 30's but were then rejected and are now regarded as non-physical. However, the reasons used for rejection are not applicable in the present context. For example, one argument says that electrons in negative states must fall indefinitely to infinite negative values: but in the present theory no electrons can exist in negative states. Such states will be confined to the sub-quantum level where none of the four forces of nature exist. Furthermore, at the quantum and higher levels only a net positive energy will be evident. A balance of both positive and negative states needs to exist at the sub-quantum level only, in such a way that a positive excess appeared for building matter, yet left a negative excess to produce the force of gravity.

The meaning of these energy states is best understood by considering an object accelerated by the application of a force. Any object, even when stationary, can be considered as being constructed from energy, rest-energy to be precise, since mass and energy are known to be equivalent to one another. An object made of positive rest-energy will accelerate in the direction of the applied force while one of negative rest-energy will accelerate in the reverse direction. This relationship may seem impossible at first sight but forces of action are always balanced by opposing forces of reaction, and an alternative set of mechanics can be set out with these forces reversed. These mechanics give exactly the same responses when all other objects are considered as made of negative energy. (15) Motion adds kinetic energy of the same origin in either case.

A background medium therefore exists, which consists of a mixture of both positive and negative energy states. This medium cannot be a continuum since the two states would cancel each other. So the energy states must be considered to exist as an intimate mixture of two kinds of complementary particle, to be called "primaries". All particles will move

at high speed to repeatedly collide and so form a seething mass in the manner of a gas-like fluid. This is the primordial i-ther whose intricate structure has yet to be described.

A New Creative Mechanism

Half of all collisions will be between primaries of like kind: either positive to positive or negative to negative. In either case they will bounce away like billiard balls obeying two basic laws of physics: the conservation of energy and the conservation of momentum. While energy is the basic material of both matter and the motion of that matter (kinetic energy), momentum is a property of matter. The momentum of an object is obtained by multiplying its mass by its velocity (the meaning of its conservation is explained in the appendix). On this basis alone both phases of the fluid, positive and negative, would neither gain nor lose energy.

The remaining half of all collisions will be between pairs, one of each kind. Then the same two laws of momentum and energy, when applied together, result in the prediction of a balanced increase of both energies at each collision. This increase is explained by Figure 1, which shows how pure energy creation or destruction can now occur without violation of the laws of physics. The first law of thermodynamics now appears as a special case of a more general law, which would read, "Energy can only be created or destroyed in equal and opposite amounts." This breeding effect implies that the zero state is unstable, and once triggered, the sub-quantum background fluid is committed to eternal growth. The i-ther has to exist as a sphere whose radius will increase indefinitely.

An expanding universe is predicted with galaxies receding at speeds proportional to their distance from us, as the astronomer Hubble was the first to observe. A theory free from the false prediction of the "cosmological constant" emerges, for which established cosmology can offer no acceptable solution, as shown by Abbott(16). Some other process needs to exist, however, to eliminate most of the pure creation generated, because it is many orders of magnitude greater than observation can allow. The solution appears naturally.

When large numbers of both kinds of primary approach a point from all directions the net growth rate is drastically reduced because the net momentum at such a point now cancels to zero, thus causing the same laws of physics to favour mutual annihilation. Flow patterns

spontaneously form, as shown in Figure 2, in which pure creation drives primaries toward centres of annihilation. Cylindrical symmetry is favoured over the alternative spherical kind because the cusp-shaped voids between packed spheres are about three times greater than for packed cylinders. These are not voids; they are breeding zones creating whisker-like projections, which enable a flip to the most stable configuration. The result is the spontaneous formation of permanent filaments of both kinds of energy at the centres of every breeding cell. Filaments are not material objects; they are primaries in the act of squeezing each other out of existence and are really flow patterns in the liquid state. They tend to form into honeycomb-like arrays, shown in cross-section in Figure 2. Being of incredibly fine spacing, many thousands would lie side by side within the compass of each tiny electron. These filaments must not be confused with elements of the "string theories" of mainstream physics, which are described in higher curved dimensions with the eleventh providing the source of creation. Some are compacted into little balls so that only the strings poke out into the four space-time dimensions we observe.

The present theory is written in only these four space-time dimensions and is based entirely on Euclidean geometry. However, string theories are not ruled out since the strings could be higher order constructs: not the filaments themselves. It is possible that the higher dimensional mathematics do not represent reality and that the nuether employs similar mathematical constructs, which are then discarded, in the way that mathematicians use imaginary numbers and then discard the imaginary parts of the final solution.

At larger scales bundles of the arrays of filament-containing cells will criss-cross in all directions as shown in Figure 3. It requires no mathematical formalism to see that, as a consequence of such random geometry, each filament will terminate at both ends in a tee-junction with some other filament that crosses its path. Due to the sharing of imploding flows near junctions a local thinning of filaments will result. The junctions, therefore, are weak points which can easily break. They can exist in bistable states: either open or closed.

In the open state any asymmetry causes an energy imbalance to build up, caused by rectification of random fluctuations occurring in the surrounding region. When some shock causes closure, an energy discharge will occur and the resulting flow can provide the shock needed to cause a change in state of other nearby junctions. So waves of

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switching action will arise spontaneously: these could be the quantum waves: the core feature of quantum theory. Furthermore, all the ingredients are present from which a working neural network could evolve and could ultimately yield a primary consciousness.

The network or grid, now defining the "i-ther" and represented symbolically by a rectangular mesh in Figures 3, 5, and 6, would interconnect everything in the universe. As yet, however, no universe of matter could exist. Spontaneous creation of the i-ther had to occur first, followed by evolution of its consciousness, since on this model matter would require deliberate design.

The only tools available for the creation of matter would be the quantum waves, organised by the computing ability of the network. Waves could be focused by such computer control, so they implode to a central point after originating from a spherical shell of the grid. Humps of energy density will appear around any focus because wave-action will create more collisions and so stimulate an excess of creation. No violation of the second law of thermodynamics is involved here because, at the sub-quantum level, pure energy creation is driving a flux of primaries, a minute fraction being intercepted continuously to produce energy imbalances in the filaments. An immense power source is available everywhere to drive the universe. In this way the tendency toward greater disorder, represented by increase of entropy, is counteracted.

These humps will serve as the elementary sub-atomic particles, which can be generated in a state of motion and, grouped by the organising power of wave interference patterns (an example is shown in Figure 4) will form up into complete atoms, molecules and crystals, as shown in Figure 5. It should be noted that the atomic nuclei are shown on a cubic lattice but it is tilted so that it is not confused with the grid symbolism, also shown, and which underlies everything.

It is known that the probability of an electron being at any point, within a space known as an "orbital" centred on the atomic nucleus, is defined by the wave-interference model of Schrödinger. It seems plausible that the huge energy input needed to maintain a particle prevents its being located for long at a given place. Then the quantum wave focus will need to be shifted abruptly to another spot to allow the local grid to recover. Hence an electron will appear as a particle-sequence joined end-to-end in time but not in position. It will seem to jump about at random within the orbital to fill the available space but at each

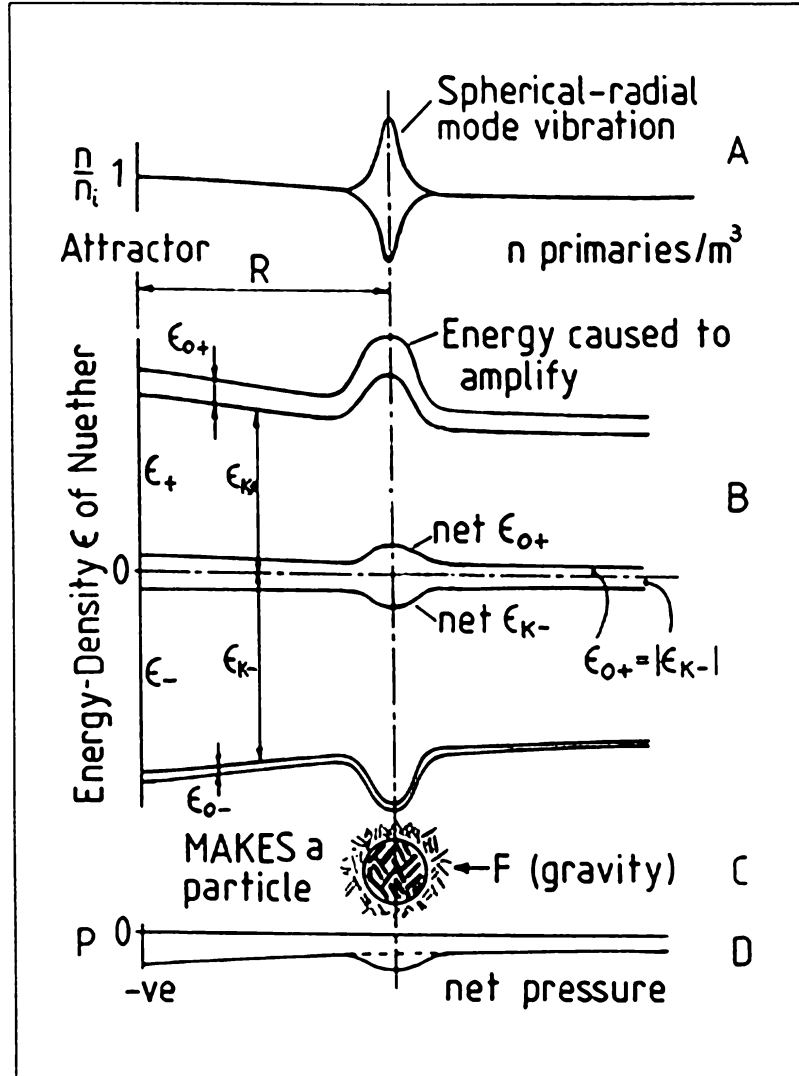


Fig. 7: At B energy-densities ϵ_+ & ϵ_- of the nuether diminish with radial distance R from a massive attractor due to spreading quantum waves. The asymmetry of rest energy, net ϵ_{o+} , is shown. Focused waves produce vibration at A to cause density humps at B and represent a sub-atomic particle. The filaments inside are fatter than outside due to increased energy creation/annihilation flux. Hence as shown at C a differential force F is produced by the net negative pressure gradient illustrated at D, which results from the net negative energy density net ϵ_{k-} .

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reconstruction it will be in motion. If it hits another particle, like a photon, during its life, then its energy-density hump will behave like a particle.

In this way a plausible explanation for the vexed question of particle-duality arises naturally from the present theory. It seems free from the paradoxes and other difficulties which appear with previous interpretations. Spherical waves imploding toward a focus will cross-over to travel away afterwards, ultimately to infinite distance. As they go, further creation will be stimulated, though at an ever decreasing rate. Combined with the waves making other humps, long range energy density gradients will form which will be greatest close to large concentrations of matter.

The author's theory of quantum gravitation depends entirely on associated pressure gradients, which due to the asymmetry already described, makes the net pressure gradients negative. (See pp 286-290 in Pearson(17) and note that the wrong asymmetry was assumed. An up to date edition is in preparation.) There is now a real force of gravity, as formulated in the author's paper(18), generated as one of negative buoyancy by the resulting gradients of excess negative pressure. Furthermore the excess positive rest energy is available everywhere to become concentrated to form the sub-atomic particles of positive matter by wave-focusing(19).

An overall representation of the i-ther generating the force of gravity on a particle is given in Figure 7. The graph 7b is a plot of energy density e for the i-ther against radius R from the center of a concentration of matter marked "Attractor". Quantum waves radiating from this mass enhance creation and annihilation causing the energy density of both phases to fall off with radius. The positive phase has a greater rest energy density e_{o+} than the negative phase e_{o-} so that the negative kinetic energy e_{k-} is the greater. These net values are also shown.

In Figure 7a a spherical-radial mode of vibration is indicated as produced by quantum-wave focusing; its amplitude is indicated as number-density concentration n/n_i where suffix i represents the initial state. Excess creation increases all local time-averaged energy densities at radius R , including the net values as shown in Figure 7b. The net negative pressure, shown at Figure 7d, is also amplified, being equal to $e_{k-}/3$. In fact this means an extra life will be produced in trapped positive primaries to fill this depression, thus enhancing the amplification to produce a particle of dominant positive rest-energy.

Filaments increase in radius when the creation rate is increased(20), and it is this increase together with the local negative pressure gradient which produces the gravitational force, as illustrated in Figure 7c.

The asymmetry in these energies is also exactly that needed to power the neural network. Without this asymmetry, open junctions cannot build up the required energy imbalances. Hence a unified description of the universe of matter has emerged together with its formative mechanism.

Physics Now Explains the "Paranormal"

The reason for creation of matter can now be deduced. The creation of matter is needed to provide the primary mind with a set of meaningful environments. Figure 6 illustrates the possible overall structure of these environments. The primary mind exists as a myriad of conscious regions, or minds, of small volume interconnected by a vast machine-like net. The minds possess a sense of morality, the remaining network is amoral. *Each mind is split into an individual conscious part and a subconscious part, the latter interconnecting with all others.* The separation is provided by an "information filter-barrier", programmed as an enclosing shell, which prevents communication from the subconscious but permits flow of information in the reverse direction.

In this way the whole can be enriched by individual experience. Each mind can, however, only receive information via sense organs, such as eyes, which record photons reflected from objects made of matter. The environment of matter will then appear as the only reality and will enable all incarnate minds to relate to one another in meaningful ways, by co-operation and competition, to help them develop.

The paranormal now fits neatly into physics. Out-of-body experiences are occasions when the mind goes temporarily out of register with the brain, the latter most probably being merely an interfacing mechanism for operating the muscles and other control systems of the body. This means that the mind has the potential to be immortal: so backing up the claims for survival made by most religions. Psychokinesis is readily explained. The programmed i-ther is structuring matter and direct mind-control is normally inhibited. Under certain conditions the inhibition routine is partially bypassed. A similar explanation for telepathy appears. Controlled leaks in the information filter-barriers are responsible for the interconnection of minds directly via the filamentous structure of the i-ther.

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Most other aspects of the paranormal can, in similar manner, be provided with rational explanations, showing them to have the potential to be real effects. More complete descriptions, covering almost the entire spectrum of the paranormal together with examples based on direct experience, can be found in the popular sections of the author's books(21). These both have mathematical appendices, the former dealing with the "Extended Newtonian" theory of quantum gravitation and the latter dealing with pure creation/annihilation processes and resulting filament theory.

Conclusions

A grand unification seems possible starting from the ultimate in simplicity: a universe dependent on only two complementary forms of kinetic energy and existing as primary particles, the only true particles in existence. More energy is locked up in spin, to be exhibited as rest energy, in the positive primaries than in their negative partners and causes a fraction of the pure creation proceeding at a hyper-astronomical rate everywhere to power the universe. This view originated from a new theory of quantum gravitation which predicted the existence of a background medium, the i-ther, structured like a neural network. This theory can explain creation of a universe of matter by the use of intelligently organised quantum-waves. Their mode of computation could use a relativistic basis, so permitting relativity to coexist with the -i-ther - the conflict now vanishes! A plausible interpretation for "wave-particle duality" appeared naturally and the theory also showed physics could be extended to incorporate the paranormal. The human mind cannot be mere brain function. The brain may or may not be a conscious entity. What seems certain, however, is that it connects with a primary consciousness which exists as part of the structure of the i-ther and could be immortal. Since immortality is the basis of all religious belief, it now seems possible that a new unity may emerge in which science can be turned round to provide faith with support. Existing schisms could soon heal with global benefit.

Appendix

Momentum is a property of matter given by the product of the mass and velocity vector of any object. The direction of motion is important as well as the speed, and the term "velocity" contains both factors. The momentum vector is often represented by an arrow pointing in the

direction of motion and having a length proportional to mass multiplied by speed.

This defines the "momentum vector". It has been observed that, in any collision, the vector sum of the momenta of all interacting particles always remains constant: hence the law of conservation of momentum. This is true whatever arbitrary frame of reference is taken for analysis. The "components" of the momentum arrows, which point in the direction of this frame of reference, are used with one direction representing positive momentum and with the reverse direction regarded as negative (the choice of positive direction is purely arbitrary).

In quantum theory forces of repulsion are modelled by so-called gauge particles which act as mediators of the electromagnetic force. These are emitted from sub-atomic particles so that the latter recoil to balance the momentum imparted to the mediator. This momentum is transferred to another sub-atomic particle by absorption of the mediator, so that the latter bounces away.

The same model is used to represent forces of attraction but now resort is made to a stratagem called the "negative coupling" to reverse the direction of motion of the sub-atomic particles in mathematical equations. Clearly a violation of the law of conservation of momentum is involved and cannot be tolerated if freedom from paradox is to be attained.

The only solution has to assume the mediator of attractive force to be a carrier of negative momentum; the arrow representing the momentum vector needs to point backwards i.e. opposite the direction of motion. This means that the mass and energy of the mediator need to be considered as negative. This is why the i-ther needs to contain negative as well as positive states.

PURE CREATION can be explained from Figure 1 without using mathematics though a full mathematical analysis is given by the author(19). Case A shows a positive primary of velocity u_1 with its momentum vector P_+ in head-on collision with one of negative energy moving in the opposite direction with velocity v_1 . The latter carries negative momentum P_- so this points in opposite direction to its velocity. The two vectors add up whereas for billiard balls of positive energy in collision they could cancel to zero. Hence very different end results will arise. For case A the only solution is for the particles to pass through each other without change of either momentum or energy: it is impossible for any mutual annihilation to occur.

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Now consider the offset collision of case B. A transverse component of impulse is added due to the glancing impact and acts on each primary. To conserve momentum in this direction the negative momentum PT^- imparted to one must exactly cancel the positive one PT^+ imparted to the other, as shown at C. Then, as shown at D, this means that both particles are deflected in the same transverse sense.

The longitudinal momenta, however, still add up and the associated energies are still unable to change. Extra energies are associated with the transverse additions and so, for glancing collisions, each primary must gain energy of its own kind. The gains, however, sum to zero so that, overall, there is no violation of the (modified) law of energy conservation.

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Dr Ian Charles Baillie

Ian was born or rather entered the physical atomic matrix in Folkestone, Kent, a small ferry and fishing port on the south east coast of England at 12:09 p.m. June 4, 1954. He was extremely lucky to have an independent thinker for a father and an energetic, exuberant mother. Although not wealthy in the monetary sense, they allowed him freedom to experiment and be himself. This included putting up with Ian's obsession for the American Civil War, which he avidly pursued from the age of ten. They did not actively encourage nor discourage this *hobby*, but wisely accommodated the strange phenomenon in their midst. Many parents would simply not have tolerated the making of various, muskets, firearms and uniforms etc. Not forgetting of course, a full size cannon that sat proudly on the back lawn. This would burst forth intermittently in pyrotechnic splendor as and when several like-minded friends came to call!

The *hobby* evolved into a profound interest in Rocketry, Chemistry and Art. Ian succeeded in winning a place at the local Grammar school in Ramsgate and transferred in 1971 to study for his University entrance examinations. Due to a love of History and an inherent skill for memorizing detailed names and places, Ian moved into studying Biology alongside his Physics and Chemistry. This led in 1974 to him gaining an unconditional place at the University of Newcastle upon Tyne to study Agricultural Zoology. During the next three years several visits and one work placement were taken up in the Netherlands and Ian became a fluent Dutch speaker. Unable to gain a full time science post in the Netherlands immediately after University, Ian studied for a Post-Graduate Certificate in Education at Christ Church College, Canterbury. He then began his successful twenty-three year teaching career in various state, armed forces and private schools, both at home and in Germany.

In parallel with this public career came a dual life as an active researcher and scientist. The powerful impetus for this being a near death brush with cancer in 1979 to 80, which stimulated Ian to pursue the true meaning of life, death, the universe and everything - he became in his own words *a born again physicist*. All avenues of knowledge were

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hungrily consumed especially those corridors of black science and technology, the X-Files of ancient, scientific and mathematical knowledge. In 1994 Ian began giving public lectures, which continue to this present day and was rewarded by having his Intelligent Universe thesis recognized in October 1999. The discovery of *Baillie* earlier that year confirmed and sealed his theories with the all-important experimental proof needed to complete the work. Encouraged by his students and colleagues, Ian took up full time writing and lecturing in January 2001 in order to produce his book *Rebel Spirit*. The book was successfully published in November of that year and has now sold many copies in both hard and soft back.

In December 2001 after following a lead on the Internet and puzzling over an anomalous glitch in the *Baillie/Baillie Kell* timeline synchronicity table, Ian discovered, upon re-evaluating his archive data, a second portrait identical to himself in a Dutch history book - same face, same name, same memories - once again! The portrait proved to be of his genetic ancestor, William Baillie, a Scottish soldier in the service of the United Provinces of the Netherlands, who rose to be Lt. General of Foote for the Scottish Covenant Forces in the British/English Civil Wars 1639 - 1660. This exciting find will be the subject of a third book, provisionally entitled; *Covenant General*.

In the summer of 2002, Ian set about completing his Intelligent Universe thesis in book form, by transcribing his original work. By January 2003 the manuscript was typed up and produced by Ian's good friend Linda Forster; *Forbidden Science* was born. Returning to teaching science and computer studies on a part-time basis has allowed Ian to continue to work on his research and publishing up to the present day.

Ian is now available, both in the UK, Europe and the US for lecture tours and after dinner speaking, with relation to all aspects of his research and discoveries.

Forbidden Science

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Publisher's details:

www.upso.co.uk
www.upso.co.uk/ianbaillie - to read extracts of *Rebel Spirit* or *Forbidden Science*
ianbaillie@upso.co.uk - to talk to the author or above.
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Also available:

Rebel Spirit; Evidence for the continuity of consciousness
Proving Memory Survives Mortality...
Rebel Spirit provides definitive proof for the survival of memory over death.

Ian Baillie takes us on a spectacular, lavishly illustrated journey into the world of a Confederate cavalryman in the American Civil War. He has made the stunning scientific discovery that subconscious emotional memory survives physical mortality and is clearly able to demonstrate this as fact from his own personal history. He shows conclusively that intense emotion is the language of subconscious memory and that our every day existence in the physical matrix is often dramatically being controlled by our own personal cryptic agenda.

It was the coincidental discovery of an old photograph in an American Civil War book that set into motion the unlocking of his subconscious memory. For Ian found that not only did he have the same face and the same name, as the soldier called *Baillie* in the picture, but that he also had the same memory! Further research found irrefutable evidence that Ian had, when an adolescent, specifically re-enacted many crucial events from Baillie's days with the 5th Georgia Cavalry.

Yet, even more breath taking, an experiment evolved in which the technique of *subconscious emotional painting* was used to unlock the compelling romantic story of a secret love affair on the Coastal Tidewater of ante-bellum Georgia. Incredibly, the indelible images of innocent aristocratic beauty, long blonde hair and the ever-present lighthouse had all been key subliminal factors in the triggering of events in Ian's present life.

Ian C Baillie

***Rebel Spirit* is more than just the complete record of one of the most important experiments into consciousness in modern time. It is the true story of a personal spiritual odyssey of discovery that evokes haunting images of a past world of chivalry and passion set against the trauma of a mighty Civil War.**

‘This book is a remarkable and wonderful contribution to the literature of the Georgia coast...not many writers approach a subject with the unbridled passion that Dr Ian C Baillie clearly demonstrates in this true story of Baillie, Sallie, Sapelo Island and McIntosh County.’

Buddy Sullivan, author of
Early Day's on the Georgia Tidewater.

‘Dr. Baillie is a teacher and a scientist who has an ability to perceive dimensions that most of us are unable to do. He has painstakingly researched the life of a long dead Confederate soldier and in essence has brought him back to life. The result is this remarkable book.’

Norman C Delaney, Ph.D and author of
John McIntosh Kell of The Raider Alabama.

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